

Electronic Data Reporting Acid Rain Program/ Subpart H

Revised January 24, 2001 Version 2.1

Who needs to use Electronic Data Reporting v2.1 formats?

The Acid Rain Program and Subpart H of Part 75 require submission of monitoring system certification applications and periodic emissions reports (including monitoring plan updates) in electronic format. Software developers and affected companies will use the revisions to the electronic file record structures in EDR v2.1 to develop computergenerated reports that meet the requirements of 40 CFR Part 75.

When do I need to begin reporting using EDR Version 2.1?

For the Acid Rain Program, Electronic Data Reporting format (EDR) Version 2.1 replaces EDR Version 1.3 beginning on April 1, 2000.

For facilities subject to Subpart H of Parts 75 and 96, you must report in EDR Version 2.1 beginning:

- ! May 1, 2000 if the NO_x Authorized Account Representative intends to apply for early reduction credits; or
- ! May 1, 2002 for other units operating before January 1, 2002. (See § 96.70(b) for units operating on or after January 1, 2002).

For units subject to Subpart H of Part 75 that are not subject to Part 96, the deadline will be specified by the State for the particular program.

For facilities subject to the OTC NO_x Budget Program only, owners and operators must meet the requirements of EDR v2.0 (July 3, 1997). The effective date of these requirements are set forth in State regulation. For more information on EDR v2.0 requirements, see *EDR v2.0 Monitoring Certification and Reporting Instructions*, July 3, 1997.

Which records are needed for which programs?

The Program Column in Tables 4 through 7 indicates the regulatory programs for which each record type may be applicable. "ARP" indicates Part 75 Acid Rain Program requirements, "OTC NBP" or "OTC" indicates State requirements for the OTC NO_x Budget Program, and "Subpart H" indicates the applicability of the record to a unit using the NO_x mass monitoring provisions in Subpart H of Part 75 (e.g., units covered by the SIP Call and NO_x Model Trading Rule). This designation includes Acid Rain units also subject to Subpart H.

How do I know if a record type has been updated from a previous version of the EDR?

The Record Type Column in Tables 4 through 7 indicates both the general information required in the record type and additional information about whether the record is new or has been modified from EDR v1.3. The indicators used to describe the status of the record are:

New: This record type was not in EDR v1.3; it was added either in EDR v2.0 or EDR v2.1.

<u>Modified</u>: This record type was in EDR v1.3 and was modified in EDR v2.0 (for purposes of the OTC NO_x

Budget Program) and/or EDR v2.1 (to support the revisions to Part 75 and Subpart H).

Optional: This record type was in EDR v1.3. It is not required for Acid Rain units subject to Part 75.

However, if you continue to submit it, EPA will accept it.

If a record type does not include any of these indicators, it has not changed since EDR v1.3.

How is the EDR organized?

The EDR is divided into seven tables:

Table 1 provides an index listing all the possible record types that may be submitted in an electronic report.

Table 2 provides an index of all record types which were included in EDR v2.0 for the OTC NBP reporting only. The OTC NBP record types are included in Appendix A to this document.

Table 3 identifies all record types that have been replaced or retired since EDR v2.1. The replaced or retired record types are included in Appendix B to this document.

Tables 4 through 7 define the specific computerized layout or "record structures" of the electronic reports, containing the following types of data: Quarterly Emission Data (Table 4), Monitoring Plan Data (Table 5), Certification-QA/QC Test Data (Table 6), and Compliance Certification Data (Table 7).

The record structures define the order, length, and placement of information within the electronic report or "file" (<u>i.e.</u>, the Record Type, Type Code, Start Column, Data Element Description, Units, Range, Length, and Fortran (FTN) Format for each data element in the electronic report). This information is used to construct electronic files to submit electronic reports to the U.S. Environmental Protection Agency.

How do I find out more about reporting using the EDR v2.1 formats?

More detailed information on the selection of record types for reporting and the use of specific columns within a record type for a particular program is included in the *Revised EDR v2.1 Monitoring Certification and Reporting Instructions*, January, 2000. You can find these instructions on EPA's Acid Rain Program homepage at www.epa.gov/airmarkets.

TABLE 1: EDR V2.1 ELECTRONIC DATA REPORTING RECORD TYPES

		RECORD TYPES		
GROUP	SUB-GROUP	RECORD TYPE	RECORD	
Facility Information		Facility Identification (Modified)		
(100)	Facility Information	Record Types Submitted (Optional)	101	
		Facility Location and Identification Information (New)	102	
Monitoring Data		SO ₂ Concentration Data	200	
(200)	Pollutant Gas Concentrations	NO _x Concentration Data (Modified)	201	
		CO ₂ Concentration Data (Modified)	202	
	Diluent Gas Concentrations	CO ₂ Diluent Concentration Data (Modified)	210	
	Diluent Gas Concentrations	O ₂ Diluent Concentration Data (Modified)	211	
	Moisture Data	Moisture Data (New)	212	
	Volumetric Flow	Volumetric Flow Data (Modified)	220	
	Daily Quality Assurance	Daily Calibration Test Data and Results (Modified)	230	
	Data and Results	Flow Daily Interference Check Results	231	
		Hourly Pollutant and Diluent Concentration Data from RM Backup Analyzers	260	
	Reference Method Backup QA Data	Quality Assurance Run Data for Reference Method Analyzers or Systems Used as Backup CEMS	261	
		Reference Method Backup Flow Rate Monitor (Run Summary) (Modified)	262	
Unit Data		Unit Operating Parameters (Modified)	300	
(300)		Quarterly Cumulative Emissions Data (Modified)	301	
	Unit On anoting and	Oil Fuel Flow (Modified)	302	
	Unit Operating and Cumulative Emissions Data	Gas Fuel Flow (Modified)	303	
		Quarterly Heat Input From Long Term Fuel Flow Measurements for Qualifying Low Mass Emission Units (New)	305	
		Cumulative NO _x Mass Emissions Data (New)	307	
		SO ₂ Mass Emissions Data (Modified)	310	
	SO ₂ Mass Emissions Data	SO ₂ Mass Emissions Alternative Estimation Parameters for Oil (Modified)	313	
		SO ₂ Mass Emissions Alternative Estimation Parameters for Natural Gas (Modified)	314	
		NO _x Emission Rate Data	320	
		$\mathrm{NO_x}$ Emission Rate Alternative Estimation Parameters for Oil and Gas (Modified)	323	
	NO _x Emissions Data	NO _x Emission Rate Estimation Based on Appendix E (New)	324	
		$\mathrm{NO_x}$ Emission Rate Estimation Based on Appendix E for Multiple Fuel Hours (New)	325	
		NO _x Mass Emissions (New)	328	

TABLE 1: EDR V2.1 ELECTRONIC DATA REPORTING RECORD TYPES

		RECORD TYPES	
GROUP	SUB-GROUP	RECORD TYPE	RECORD
Unit Data		CO ₂ Mass Emissions Data (Modified)	330
(300)	CO ₂ Mass Emissions Data	CO ₂ Mass Emissions Estimation Parameters	331
	Qualifying Low Mass Emissions Unit Data	Hourly Emissions Data for Qualifying Low Mass Emissions Units (New)	360
Monitoring Plan		Stack/Pipe Header Definition Table (Modified)	503
Information (500)		Unit Information (New)	504
		Program Indicator for Report (New)	505
		EIA Cross Reference Information (New)	506
		Fuel Usage Data to Qualify as a Peaking Unit or an Acid Rain Program Gas-fired Unit (New)	507
		Subpart H Reporting Frequency Change (New)	508
		Monitoring Systems/Analytical Components Table (Modified)	510
		Formula Table	520
		Span Table (Modified)	530
		Maximums, Minimums, Defaults and Constants (New)	531
		Unit and Stack Operating Load Data (New)	535
		Range of Operation, Normal Load, and Load Usage (New)	536
		Fuel Flowmeter Data (Modified)	540
		Reasons for Monitoring System Downtime or Missing Parameter (Optional)	550
		Monitoring System Recertification, Maintenance, or Other Events (New)	556
		Appendix E NO _x Correlation Curve Segments (New)	560
		Monitoring Methodology Information (New)	585
		Control Equipment Information (New)	586
		Unit Fuel Type (New)	587
Certification Test Data	Calibration/Error Tests	7-Day Calibration Error Test Data and Results (Modified)	600
(600)	Linearity Checks	Linearity Check Data (Modified)	601
	Linearity Checks	Linearity Check Results (Modified)	602
	Leak Checks	Flow Leak Check Results (Modified)	603
	Flow/Load Checks	Reference Data for Flow-to-Load Ratio or Gross Heat Rate Evaluation (New)	605
		Quarterly Flow-to-Load Ratio or Gross Heat Rate Check (New)	606

TABLE 1: EDR V2.1 ELECTRONIC DATA REPORTING RECORD TYPES

RECORD TYPES							
GROUP	SUB-GROUP	RECORD TYPE	RECORD				
Certification Test Data		RATA and Bias Test Data (Modified)	610				
(600)		RATA and Bias Test Results (Modified)	611				
	RATA/Bias Tests	Reference Method Supporting Data for Flow RATA Tests (New)	614				
		Reference Method Supporting Data for Flow RATA Tests (New)	615				
		Reference Method Supporting Data for Flow RATA Tests (New)	616				
	Cycle Time Test	Cycle Time Test Data and Results (Modified)	621				
	On Line/Off Line Calibration Demonstration	Qualifying Test for Off-line Calibration Error Tests (New)	623				
	Miscellaneous QA Test/Activity	Other QA Activities (New)	624				
	Fuel Flowmeter Accuracy	Fuel Flowmeter Accuracy Test (New)	627				
	Tests	Tests Accuracy Test for Orifice, Nozzle, or Venturi Type Fuel Flowmeters (New)					
	Quarterly Fuel Flow-to-Load Analysis	Baseline Data for Fuel-Flow-to-Load Ratio or Gross Heat Rate Check for Fuel Flowmeters (New)	629				
	Anaiysis	Quarterly Fuel-Flow-to-Load Test for Fuel Flowmeters (New)	630				
	Alternative Monitoring	Alternative Monitoring System Approval Petition Data (Renumbered from EDR v1.3 RT 630)	640				
	Petition Data	Alternative Monitoring System Approval Petition Results and Statistics (Renumbered from EDR v1.3 RT 631)	641				
	LME Certification	Qualifying Data for Low Mass Emissions Units Excepted Methodology (New)	645				
		NO _x Emission Rate Correlation Test Data (Modified)	650				
	Appendix E	NO _x Emission Rate Correlation Results (Modified)	651				
	and Unit Specific Default	Heat Input from Oil Combusted During Test (Modified)	652				
	Emission Rate Test Data	Heat Input from Gas Combusted During Test (Modified)	653				
		Unit Group Testing (New)	660				
		Single-load Flow RATA Claim (New)	695				
	QA Test	Fuel Flowmeter Accuracy Test Extension (New)	696				
	Extensions/Exemption	RATA Deadline Extension or Exemption (New)	697				
	Claims	Quarterly QA Test Exemption Claim (New)	698				
		QA Test Extension Claim Based on Grace Period (New)	699				

TABLE 1: EDR V2.1 ELECTRONIC DATA REPORTING RECORD TYPES

RECORD TYPES								
GROUP	GROUP SUB-GROUP RECORD TYPE							
Certification Data (900)		Part 75 Certification Statement and Designated Representative Signature	900					
		Part 72 Certification Statement	901					
		Cover Letter Text (file specific) (Optional)	910					
	Certification Data	Cover Letter Text (not specific to file) (Optional)	920					
		Subpart H Certification Statement and NO _x Authorized Account Representative Signature (New)	940					
		Subpart H General Certification Statement (New)	941					
		Contact Person Record (New) (Optional)	999					

TABLE 2: OTC/NBP ONLY RECORD TYPES (EDR v2.0)

		RECORD TYPES	
GROUP	SUB-GROUP	RECORD TYPE	RECORD
Monitoring Data		Daily QA Reference Checks for Non-CEMS Parameters	232
(200)		Other Daily QA Checks	233
Unit Data		Long Term Fuel Flow Measurements	306
(300)		Hourly Heat Input Data for Alternative Heat Input Methods	350
		Supplementary Heat Input Data for Solid Fuel Measurements	351
		Supplementary Heat Input Data for Other Methodologies	352
Monitoring Plan Information (500)		Monitoring System Recertification Events	555
Certification Test Data		Fuel Flowmeter Calibration Data	625
(600)		Fuel Flowmeter Calibration Results	626
		Identical Unit Group Test Results for Appendix E	661
Certification Data (900)		NO _x Budget Program Certification Statement and Authorized Account Representative Signature	930
		NO _x Budget Program General Certification Statement	931

TABLE 3: RESERVED/EXPIRED/REPLACED RECORD TYPES

		RECORD TYPES		
GROUP	SUB-GROUP	RECORD TYPE	RECORD	
Unit Data (300)	SO ₂ Mass Emissions	SO ₂ Mass Emissions Alternative Estimation Parameters for Oil (Replaced by RT 313)	311	
	Data	SO ₂ Mass Emissions Alternative Estimation Parameters for Natural Gas (Replaced by RT 314)	312	
	NO _x Emissions	NO _x Emission Rate Alternative Estimation Parameters for Oil (Replaced by RT 323)	321	
	Data	NO _x Emission Rate Alternative Estimation Parameters for Natural Gas (Replaced by RT 323)	322	
Unit Data	SO, Control Equipment Data	SO ₂ Control Equipment Operation Parameters	400	
(400)	SO ₂ Control Equipment Data	SO ₂ Control Equipment Scrubber Module Parameters	401	
	NO _x Control Equipment Parameters	NO _x Control Equipment Operation Parameters	410	
		420		
	Qualifying Phase I SO ₂ Control Equipment	SO ₂ Phase I Technology Post-Combustion Control Parameters Outlet Monitors	421	
	Parameters	SO ₂ Phase I Technology Pre-Combustion Control Parameters	422	
		SO ₂ Phase I Technology Combustion Emission Controls	423	
Monitoring Plan		Unit Definition Table (Replaced by RT 502, January 1, 1996)	500	
Information (500)		Stack/Pipe Header Definitions Table (Replaced by RT 503)	501	
		Unit Definition Table § 75.53(c)(2) (Replaced by RTs 504, 505, 585, 586, and 587)	502	
		Monitoring System Certification Status/Events (Withdrawn by Question C5 in the Consolidated Questions and Answers on OTC NO _x Budget Program Monitoring and Reporting, June 2, 1998.)	511	
Certification Test Data and Results	RATA/Bias Tests	Reference Method Supporting Data for Gas RATAs (Replaced by RTs 614, 615, and 616)	612	
(600)		Reference Method 2 Supporting Data for Flow RATA Tests (Replaced by RTs 614, 615, and 616)	613	
	Cycle/Response Time	Cycle Time/Response Time Test Data and Results (Replaced by RT 621)		
	Alternative Monitoring	Alternative Monitoring System Approval Petition Date (see RT 640 and 641)	630	
	System Petitions Test Data and Results	Alternative Monitoring System Approval Petition Results and Statistics (See RT 640 and 641)	631	

TABLE 4: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			FACILITY INFORMA	ΓΙΟΝ				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			FACILITY INFORMATION	ON				
Facility Identification	100	1	Record type code				3	I3
01.15		4	Facility/ORISPL number				6	I6
(Modified)		10	Calendar quarter data contained in report			1-4	1	I1
		11	Calendar year data contained in report		YYYY	≥1993	4	I4
		15	EDR version (V2.0, V2.1) ¹				5	A5
					Total Recor	d Length	19	•
Record Types	101	1	Record type code				3	13
Submitted		4	Unit ID				6	A6
(Optional)		10	Stack/Pipe ID				6	A6
(opnomi)		16	Parameter reported ²				7	A7
		23	Record type used				3	13
		26	Number of records			1-9999	4	I4
					Total Recor	d Length	29	
Facility Location and	102	1	Record type code				3	13
Identification Information		4	Plant name				20	A20
mormation		24	EPA facility ID (FINDS)				12	A12
(New)		36	EPA AIRS facility system (AFS) ID				10	A10
		46	State facility ID				15	A15
		61	Source category/type				20	A20
		81	Primary SIC code				4	I4
		85	State postal abbreviation				2	A2
		87	County code (FIPS)				3	I3
		90	Reserved				1	
		91	Latitude		DDMMSS		6	16
		97	Longitude		DDDMMSS		7	I7
					Total Recor	d Length	103	

EDR version 1.3B expires on 3/31/1999 and EDR version 1.3 expires on 3/31/2000.

Available codes are: CO2CONC, CO2MASS, DILUENT, FLOWRTE, GASRATE, HEATINP, LOWMASS, MOISTUR, NOXCONC, NOXMASS, NOXRATE, OILRATE, OPERATN, OSNSUMM, QTRSUMM, SO2CONC, SO2MASS

TABLE 4: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

Type				MONITORING DAT	'A				
SO2				DATA ELEMENT DESCRIPTION		UNITS	RANGE	LENGTH	FORMAT (FTN)
Concentration Data A Unit/Stack ID				POLLUTANT GAS CONCENTE	RATIONS				
Data	SO_2	200	1	Record type code				3	I3
ARP only 10 Component ID 3 A3 A3 A3 A3 A3 A3			4	Unit/Stack ID				6	A6
16	Data		10	Component ID				3	A3
16	ARP only		13	Monitoring system ID				3	A3
Percent monitor data availability for SO2 % 0.0-100.0 5 F5.1	·		16	Date		YYMMDD		6	I6
29			22	Hour		НН	00-23	2	12
29			24	Percent monitor data availability for SO ₂		%	0.0-100.0	5	F5.1
A verage SO ₂ concentration for the hour adjusted for bias A verage SO ₂ concentration code Di-10,12, 16,17,19, 20,21,23, 54,55 Verage NO ₄ Concentration Data Dat			29			ppm		6	F6.1
NO			35	Average SO ₂ concentration for the hour adjusted				6	F6.1
NO _χ Concentration Data 1 Record type code 4 Unit/Stack ID 6 A6 A6 A6 A6 A6 A6 A6			41	Method of determination code			16,17,19, 20,21,23,	2	I2
Concentration Data (Modified) A			•		•	Total Rec	ord Length	42	
Data 10 Component ID 3 A3 A3 A3 A3 A3 A3 A3	NO_x	201	1	Record type code				3	I3
(Modified) (Modif			4	Unit/Stack ID				6	A6
16	Data								
CO2	(Modified)					MAN W WDD			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	()						00.22		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							00-23		
38 Percent monitor data availability for NO _x % 0.0-100.0 5 F5.1						P	06-12,17, 19,20,21,		
CO2 Total Record Length 42 CO2 Concentration			32	Adjusted average NO _x concentration for the hour		ppm		6	F6.1
CO2 Concentration Data Data Component ID			38			%	0.0-100.0	5	F5.1
Concentration Data 4 Unit/Stack ID 6 A6 10 Component ID 3 A3 (Modified) 13 Monitoring system ID 3 A3 ARP Only 16 Date YYMMDD 6 I6 22 Hour HH 00-23 2 I2 24 Average CO2 concentration for the hour % 6 F6.1 30 Method of determination code 01-04, 06-10, 12,17,20, 23,54,55 2 I2 32 Percent monitor data availability for CO2 concentration % 0.0-100.0 5 F5.1						Total Rec	ord Length	42	
Data		202	1	Record type code				3	I3
(Modified) 13			4	Unit/Stack ID				6	A6
ARP Only 16 Date 22 Hour 24 Average CO_2 concentration for the hour 24 Average CO_2 concentration for the hour 24 Average CO_2 concentration code 24 Average CO_2 concentration 24 Average 24 Aver	Data		10	Component ID				3	A3
ARP Only 16 Date 22 Hour 22 Hour 23 Average 23 Hour 23 Average 2	(Modified)		13	Monitoring system ID				3	A3
22 Hotal 24 Average CO_2 concentration for the hour 30 Method of determination code 30 Method of determination code 31 Method of determination code 32 Percent monitor data availability for CO_2 32 Method of determination 33 Percent monitor data availability for CO_2 35 Method of determination 36 Method of determination 37 Method of determination 37 Method of determination 38 Method of determination 39 Method of determination 30 Method of determination 30 Method of determination 30 Method of determination code 30 Method of determination code 30 Method of determination 30 Meth			16	Date		YYMMDD		6	I6
30 Method of determination code 30 Method of determination code 31 Percent monitor data availability for CO ₂ 32 Percent monitor data availability for CO ₂ 33 F5.1	ARP Only		22	Hour		НН	00-23	2	I2
Percent monitor data availability for CO_2			24	Average CO ₂ concentration for the hour		%		6	F6.1
concentration			30	Method of determination code			12,17,20,	2	I2
			32			%		5	F5.1

MODCs 30, 31, 35, and 36 were used in EDR v2.0 for OTC sources. These codes are not allowed for EDR v2.1.

TABLE 4: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			MONITORING DAT	A				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			DILUENT GAS CONCENTRA	ΓΙΟΝS				
CO ₂ Diluent	210	1	Record type code				3	I3
Concentration		4	Unit/Stack ID				6	A6
Data		10	Component ID				3	A3
(Modified)		13	Monitoring system ID				3	A3
,		16	Date		YYMMDD		6	16
		22	Hour		НН	00-23	2	12
		24	Average CO ₂ concentration for the hour		%	0.0-100.0	5	F5.1
			Method of determination code ⁴			01-04, 06-10,12,17, 20,23,54,55	2	I2
		31	Percent monitor data availability for CO ₂ concentration		%	0.0-100.0	5	F5.1
					Total Rec	ord Length	35	
O ₂ Diluent	211	1	Record type code				3	13
Concentration Data		4	Unit/Stack ID				6	A6
Data		10	Component ID				3	A3
(Modified)		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	16
		22	Hour		НН	00-23	2	I2
		24	Average O ₂ concentration for the hour		%	0.0-100.0	5	F5.1
		29	Method of determination code ⁴			01-04, 06-10, 12,17,20, 23,54,55	2	I2
			Moisture basis of measurement (W-wet or D-dry (for O ₂ used for moisture calculations), Blank (for O ₂ used only for diluent purposes))			W,D	1	A1
		32	Percent monitor data availability for O ₂ concentration		%	0.0-100.0	5	F5.1
					Total Rec	ord Length	36	
			MOISTURE DATA					
Moisture Data	212		Record type code				3	13
(New)			Unit/Stack ID				6	A6
(110W)			Component ID				3	A3
			Monitoring system ID				3	A3
			Date		YYMMDD		6	16
			Hour		HH	00-23	2	I2
		24	Average moisture content of flue gases for the hour		%H2O	0.0-100.0	5	F5.1
			Formula ID				3	A3
		32	Method of determination code ⁵			01-04, 06-10,12, 21,23,54,55	2	I2
		34	Percent monitor data availability for moisture		%	0.0-100.0	5	F5.1
					Total Rec	cord Length	38	

MODC 30 was used in EDR v2.0 for OTC sources. This code is not allowed for EDR v2.1.

MODCs 30 and 31 were used in EDR v2.0 for OTC sources. These codes are not allowed for EDR v2.1.

TABLE 4: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			MONITORING DAT	A				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			VOLUMETRIC FLOW	•			•	
Volumetric Flow	220	1	Record type code				3	I3
Data		4	Unit/Stack ID				6	A6
(Modified)		10	Component ID				3	A3
(Modified)		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Percent monitor data availability for volumetric flow		%	0.0-100.0	5	F5.1
		29	Average volumetric flow rate for the hour		scfh		10	I10
		39	Average volumetric flow rate for the hour adjusted for bias		scfh		10	I10
		49	Reserved				5	
		54	Operating load range corresponding to gross load			01-20	2	I2
		56	Method of determination code ⁵			01-12, 20, 23,54,55	2	I2
•				•	Total Rec	ord Length	57	
			DAILY QUALITY ASSURANCE DATA	AND RES	ULTS			
Daily	230	1	Record type code				3	I3
Calibration Test		4	Unit/Stack ID				6	A6
Data and Results		10	Component ID				3	A3
(Modified)		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Instrument span ⁶				13	F13.3
		37	Reference value ⁶				13	F13.3
		50	Measured value ⁶				13	F13.3
		63	Results (calibration error or R-A)		%,ppm	0.0-100.0	5	F5.1
		68	Alternative performance specification (APS) flag ⁷			0,1	1	I1
		69	Reserved				2	
		71	Calibration gas or reference signal level (Z-zero, M-mid, H-high)			Z,M,H	1	A1
		72	Span scale (H-high, L-low)			H,L	1	A1
'		•		•	Total Rec	ord Length	72	•
Flow Daily	231	1	Record type code				3	I3
Interference		4	Unit/Stack ID				6	A6
Check Results		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	16
		22	Hour		НН	00-23	2	I2
		24	Status (P-pass, F-fail)			P,F	1	A1
		25	Reserved				2	
		•			Total Rec	ord Length	26	

Report span, reference values, and measured values in calibration span units defined in RT 530, column 62.

If an alternative performance specification (|R-A|) is used for SO₂ or NO₃ low emitters or for low-span DP-type flow monitors, according to section 3 of Appendix A to Part 75, a 1 is reported; a zero is reported otherwise. For CO₂ or O₂ |R-A| is the normal calculation method; therefore, a 0 (zero) should always be reported for CO₂ and O₂ and there is no alternative specification.

TABLE 4: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

	MONITORING DATA								
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)	
			REFERENCE METHOD BACKUP	QA DATA					
Hourly Pollutant	260	1	Record type code				3	I3	
and Diluent		4	Unit/Stack ID				6	A6	
Concentration Data from RM			10	Reference method component ID				3	A3
Backup		13	Reference method monitoring system ID				3	A3	
Analyzers		16	Parameter monitored (SO2, NOX, CO2, O2)				4	A4	
		20	Run number				2	I2	
		22	Date		YYMMDD		6	I6	
		28	Hour		НН	00-23	2	I2	
		30	Unadjusted (raw) average pollutant or diluent concentration for the hour		%, ppm		7	F7.2	
		37	Adjusted average pollutant or diluent concentration for the hour		%, ppm		7	F7.2	
		•			Total Rec	ord Length	43		

TABLE 4: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			MONITORING DAT	A				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			REFERENCE METHOD BACKUP	QA DATA	1			
Quality	261	1	Record type code				3	I3
Assurance Run		4	Unit/Stack ID				6	A6
Data for Reference		10	Reference method component ID				3	A3
Method		13	Reference method monitoring system ID				3	A3
Analyzers or		16	Run number				2	I2
Systems Used as		18	RM run start date		YYMMDD		6	I6
Backup CEMS		24	RM run start hour		НН	00-23	2	I2
		26	RM run end date		YYMMDD		6	I6
		32	Rm run end hour		НН	00-23	2	I2
		34	Type of analyzer/system			EXT, DIL	3	A3
		37	Moisture basis of RM analysis			WET, DRY	3	A3
		40	Instrument span (as defined in App A, Part 60)				5	I5
		45	Dilution factor				5	I5
		50	Reference zero gas concentration				7	F7.2
		57	Initial (pre-test) calibration responsezero gas				7	F7.2
		64	Pre-test calibration errorzero gas (% of span)		%		5	F5.1
		69	Reference mid-level gas concentration				7	F7.2
		76	Initial (pre-test) calibration responsemid gas				7	F7.2
		83	Pre-test calibration errormid gas (% of span)		%		5	F5.1
		88	Reference high-level gas concentration				7	F7.2
		95	Initial (pre-test) calibration responsehigh gas				7	F7.2
		102	Pre-test calibration errorhigh gas (% of span)		%		5	F5.1
		107	Upscale gas used during run (M-mid, H-high)			М,Н	1	A1
		108	Pre-run system responsezero gas				7	F7.2
		115	Pre-run system bias (non-dilution) or calibration error (dilution)zero gas (% of span)		%		5	F5.1
		120	Post-run system responsezero gas				7	F7.2
		127	Post-run system bias (non-dilution) or calibration error (dilution)zero gas (% of span)		%		5	F5.1
		132	Pre-run system responseupscale gas				7	F7.2
		139	Pre-run system bias (non-dilution) or calibration error (dilution)upscale gas (% of span)		%		5	F5.1
		144	Post-run system responseupscale gas				7	F7.2
		151	Post-run system bias (non-dilution) or calibration error (dilution)upscale gas (% of span)		%		5	F5.1
		156	Zero drift (% of span)		%		5	F5.1
		161	Calibration drift (% of span)		%		5	F5.1
		166	Stack gas density adjustment factor				5	F5.3
					Total Rec	ord Length	170	

TABLE 4: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			MONITORING DAT	'A				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			REFERENCE METHOD BACKUP	QA DATA	_			
Reference	262	1	Record type code				3	I3
Method Backup Flow Rate		4	Unit/Stack ID				6	A6
Monitor (Run		10	Reference method component ID				3	A3
Summary)		13	Reference method monitoring system ID				3	A3
		16	Run date		YYMMDD		6	I6
(Modified)		22	Run hour		HH	00-23	2	I2
		24	Number of traverse points				2	I2
		26	(Square root of ΔP) _{avg.}		in. H ₂ O		5	F5.2
		31	T _s , stack temperature		°F		4	I4
		35	P _{bar} , barometric pressure, in. Hg		in. Hg		5	F5.2
		40	P _g , stack static pressure, in. H ₂ O		in. H ₂ O		5	F5.2
		45	% CO ₂ in stack gas, dry basis		%		5	F5.2
		50	% O ₂ in stack gas, dry basis		%		5	F5.2
		55	% moisture in stack gas		$\%~\mathrm{H_2O}$		5	F5.2
		60	M _d , stack gas molecular weight, dry basis		lbs/lbs-mole		5	F5.2
		65	M _s , stack gas molecular weight, wet basis		lbs/lbs-mole		5	F5.2
		70	Pitot tube or probe coefficient				5	F5.3
		75	Date of latest pitot tube or probe calibration		YYMMDD		6	I6
		81	A _s , stack or duct cross-sectional area at test port		ft^2		6	F6.1
		87	Total volumetric flow rate		scfh		10	I10
		97	Average axial velocity		ft/sec		8	F8.3
		105	Reference method probe type				3	A3
					Total Reco	ord Length	107	

TABLE 4: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

	UNIT DATA											
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)				
			UNIT OPERATING AND CUMULATIVE	EMISSIO	NS DATA							
Unit Operating	300	1	Record type code				3	I3				
Parameters		4	Unit/Stack/Pipe ID				6	A6				
(Modified)		10	Date		YYMMDD		6	I6				
(======================================		16	Hour		НН	00-23	2	I2				
		18	Unit operating time			0.00-1.00	4	F4.2				
		22	Gross unit load during unit operation		MWe		6	16				
		28	Steam load during unit operation		1000 lb/hr		6	16				
		34	Operating load range corresponding to gross load during unit operation			01-20	2	12				
		36	Hourly heat input rate during unit operation for all fuels		mmBtu/hr		7	F7.1				
		43	Heat input formula ID				3	A3				
		46	F-factor for heat input calculation	CEMS Only			10	F10.1				
		56	Use of diluent cap for heat input calculation for this hour (Y-cap used)	CEMS Only		Y	1	A1				
		57	Total heat input for the hour	Optional	mmBtu		7	F7.1				
					Total Recor	d Length	63					
Quarterly	301	1	Record type code				3	I3				
Cumulative		4	Unit/Stack/Pipe ID				6	A6				
Emissions Data		10	Date of report generation		YYMMDD		6	I6				
(Modified)		16	Quarterly SO ₂ tons emitted		ton		10	F10.1				
		26	Cumulative annual SO ₂ tons emitted		ton		10	F10.1				
ARP Only		36	Quarterly average NO _x emission rate		lb/mmBtu		13	F13.3				
		49	Cumulative annual average NO _x emission rate		lb/mmBtu		13	F13.3				
		62	Quarterly CO ₂ tons emitted		ton		10	F10.1				
		72	Cumulative annual CO ₂ tons emitted		ton		10	F10.1				
		82	Quarterly total heat input		mmBtu		10	I10				
		92	Cumulative annual total heat input		mmBtu		10	I10				
		102	Reserved				6					
		108	Reserved				6					
		114	Quarterly unit/stack/pipe operating hours		hr		4	I4				
		118	Cumulative annual unit/stack/pipe operating hours		hr		4	I4				
	-	<u>-</u>	•	•	Total Recor	d Length	121	-				

TABLE 4: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

	UNIT DATA										
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)			
			UNIT OPERATING AND CUMULATIVE	EMISSIO	NS DATA						
Oil Fuel Flow	302	1	Record type code				3	I3			
		4	Unit/Pipe ID				6	A6			
(Modified)		10	Monitoring system ID				3	A3			
		13	Date		YYMMDD		6	16			
		19	Hour		НН	00-23	2	I2			
		21	Mass flow rate of oil during oil combustion		lb/hr		10	F10.1			
		31	Source of data code for mass oil flow rate 8			0-6,8,9	1	I1			
		32	Operating load range corresponding to gross load			01-20	2	12			
		34	Gross calorific value (GCV) of oil				10	F10.1			
		44	Source of data code for GCV of oil 9	OTC only		0,1	1	I1			
		45	Heat input rate from oil during oil combustion		mmBtu/hr		7	F7.1			
		52	Fuel usage time			0.01-1.00	4	F4.2			
		56	Type of oil 10				3	A3			
		59	Volumetric flow rate of oil during oil combustion				10	F10.1			
		69	Units of measure for volumetric oil flow rate 11				5	A5			
		74	Source of data code for volumetric oil flow rate ⁸			0,1,3-7	1	I1			
		75	Density of oil				8	F8.5			
		83	Units of measure for density of oil 11				5	A5			
		88	Source of data code for density of oil 12	OTC only		0,1	1	I1			
		89	Flag to indicate multiple or single fuel types combusted (M-multiple, S-single)			M,S	1	A1			
		90	Type of oil sampling and GCV value used in calculations ¹²				2	12			
		92	Type of oil sampling and density value used in calculations ¹²				2	12			
	-	-		-	Total Record I	Length	93				

- 0 = Measured data
 - Substitute data using load-based procedures 1 =
 - Mass from volumetric measurement
 - Maximum fuel flow rate (Missing data purposes only. This value should also be used for OTC NBP units using long term fuel flow missing data procedures.)
 - lgnitor oil from tank measurements
 Uncertified OFFM to measure ignitor oil

 - 6 =
 - Prorated long-term volumetric fuel measurement (OTC NBP only)
 - Prorated long-term mass fuel measurement (OTC NBP only)
- Measured
 - Missing data substitution
- See instructions for allowable codes.
- 11 SCFH (scf/hr); GALHR (gal/hr); BBLHR (barrels/hr), M3HR (m^3 /hr) LBSCF (lb/scf); LBGAL (lb/gal); LBBBL (lb/barrel), LBM3 (lb/ m^3) VOLUMETRIC OIL FLOW: Limited to a Table of Codes: DENSITY:
- 12 Type of oil sampling and value used:
 - Actual measured value from daily manual sample
 - 1 = Actual measured value from flow proportional/weekly composite sample

 - 5 =
 - Actual measured value from follow proportional weekly composite sample
 Actual measured value from oil tank sample
 Highest sampled value in previous calendar year from oil tank sampling
 Highest sampled value in previous calendar year from as delivered sample
 Maximum value allowed by contract (only if higher than measured oil tank sample) 6 =
 - Maximum value allowed by contract (only if higher than measured oil as delivered sample)
 - 8 =Missing data (maximum potential value from Table D-6)
 - LME GCV/Density Default 9 =
 - 10 =Highest sampled value in previous 30 days

TABLE 4: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			UNIT DATA					
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			UNIT OPERATING AND CUMULATIVE	EMISSIO	NS DATA			
Gas Fuel Flow	303	1	Record type code				3	I3
(Modified)		4	Unit/Pipe ID				6	A6
(Modified)		10	Monitoring system ID				3	A3
		13	Date		YYMMDD		6	I6
		19	Hour		НН	00-23	2	I2
		21	Flow rate of gas during gas combustion		100 scfh		10	F10.1
		31	Source of data code for gas flow rate 13			0-3,7,9	1	I1
		32	Operating load range corresponding to gross load			01-20	2	12
		34	Gross calorific value (GCV) of gas		Btu/100 scf		10	F10.1
		44	Source of data code for GCV 9	OTC only		0,1	1	I1
		45	Heat input rate from gas during gas combustion		mmBtu/hr		7	F7.1
		52	Fuel usage time			0.01-1.00	4	F4.2
		56	Type of gas 10				3	A3
		59	Flag to indicate multiple or single fuel types combusted (M-multiple, S-single fuel)			M,S	1	A1
		60	Type of gas sampling and GCV value used in calculations ¹⁴			0-10	2	I2
		•			Total Recor	d Length	61	
Quarterly Heat	305	1	Record type code				3	13
Input From Long Term Fuel Flow		4	Unit/Pipe ID				6	A6
Measurements for		10	Monitoring system ID				3	A3
Qualifying Low		13	Type of fuel 10				3	A3
Mass Emission		16	Quarter or reporting period			1-4, 2A,2S	2	A2
Units		18	Year		YYYY		4	I4
(New)		22	Quarterly or reporting period fuel flow				10	I10
		32	Units of measure for fuel flow 15				5	A5
		37	Gross calorific value				10	F10.1
		47	Gross calorific value units of measure 16				8	A8
		55	Total heat input		mmBtu		10	I10
					Total Recor	d Length	64	

^{0 =} Hourly measurement

- Substitute data using load based procedures 1 =
- Maximum fuel flow rate (OTC NBP only long term fuel flow missing data procedures) Prorated long term fuel measurement (OTC NBP only)
- 9 = Value reported but not used for hourly heat input (OTC NBP only)
- - Type of gas sampling and value: 0 = Actual measured GCV from most recent monthly sampling
 - 1 = Highest of all sampled values in previous calendar year
 - Maximum Value allowed by contract (if higher than monthly sample)

 - Highest GCV in previous 30 daily samples Actual measured GCV from continuous (hourly) sampling
 - Gas fuel in lots, as delivered sampling: highest of all sampled values in previous calendar year
 - Gas fuel in lots, as delivered sampling: maximum value allowed by contract (if higher than most recent as delivered sample)
 - Actual measured GCV from daily sampling
 - Missing data based on Table D-6 default
 - 9 = LME/GCV Default
 - 10 = Actual GCV from most recent shipment or lot
- 15 Limited to a table of codes: LB, SCF, GAL
- 16 Limited to a table of codes: BTU/LB, BTU/SCF, BTU/GAL

TABLE 4: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

UNIT DATA										
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)		
			UNIT OPERATING AND CUMULATIVE	EMISSIO	NS DATA					
Cumulative	307	1	Record type code				3	13		
NO _x Mass Emissions Data		4	Unit/Stack/Pipe ID				6	A6		
(New)		10	Date of report generation		YYYYMMDD		8	18		
ARP LME and		18	Reporting period NO _x tons emitted		ton		10	F10.1		
Subpart H Only		28	Cumulative ozone season NO _x tons emitted		ton		10	F10.1		
		38	Reporting period heat input		mmBtu		10	F10.1		
		48	Cumulative ozone season heat input		mmBtu		10	F10.1		
		58	Total reporting period operating hours		hr		4	I4		
		62	Cumulative ozone season operating hours		hr		5	I5		
		67	Cumulative annual NO _x tons emitted		ton		10	F10.1		
		77	Cumulative annual total heat input	Subpart H only	mmBtu		10	I10		
		87	Cumulative annual unit/stack/pipe operating hours	Subpart H only	hr		4	I4		
				•	Total Recor	d Length	90			
			SO2 MASS EMISSIONS D	ATA						
SO ₂ Mass	310	1	Record type code				3	13		
Emissions Data		4	Unit/Stack ID				6	A6		
(Modified)		10	Date		YYMMDD		6	16		
ARP Only		16	Hour		НН	00-23	2	I2		
		18	SO ₂ mass emission rate for the hour		lb/hr		7	F7.1		
		25	SO ₂ mass emission rate during unit operation based on adjusted values		lb/hr		7	F7.1		
		32	Formula ID from monitoring plan for hourly SO_2 emissions				3	A3		
		35	Total SO ₂ mass emissions for the hour	Optional	lb		7	F7.1		
		<u>-</u>			Total Record	Length	41			

TABLE 4: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			UNIT DATA					
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
		•	SO2 MASS EMISSIONS D	ATA				
SO ₂ Mass	313	1	Record type code				3	13
Emissions Alternative		4	Unit/Pipe ID				6	A6
Estimation Parameters for Oil		10	Monitoring system ID				3	A3
		13	Date		YYMMDD		6	16
(Modified)		19	Hour		НН	00-23	2	I2
ARP Only		21	Sulfur content of oil sample used to calculate SO ₂ mass emission rate		%	.01-5.0	5	F5.2
		26	Reserved				3	
		29	Reserved				1	
		30	SO ₂ mass emission rate from oil during oil combustion		lb/hr		7	F7.1
		37	Total SO ₂ mass emissions from oil	Optional	lb		7	F7.1
		44	Type of sulfur sampling and value used in calculations ¹⁷			0-8	2	I2
		1			Total Recor	d Length	45	
SO ₂ Mass	314	1	Record type code				3	13
Emissions Alternative		4	Unit/Pipe ID				6	A6
Estimation Parameters for Gas		10	Monitoring system ID				3	A3
		13	Date		YYMMDD		6	16
(Modified)		19	Hour		НН	00-23	2	I2
ARP Only		21	Sulfur content of gas sample used to calculate SO ₂ mass emission rate		grains/100 scf		8	F8.1
		29	Reserved				1	
		30	Default SO ₂ emission rate		lb/mmBtu		7	F7.5
		37	SO ₂ mass emission rate from gas during gas combustion		lb/hr		8	F8.5
		45	Total SO ₂ mass emissions from gas	Optional	lb		7	F7.1
		52	Type of sulfur sampling and value used in calculations ¹⁷			0,3,5, 7-10	2	I2
					Total Recor	d Length	53	

Type of data for sulfur content:

0 = Actual measured hourly average sample from GCH

1 = Actual measured value from oil composite sample

2 = Actual measured value from oil tank sample

3 = Highest daily sample in 30 daily samples (gas or oil)

4 = Highest sampled value in previous calendar year from oil tank sampling

5 = Highest sampled value in previous calendar year from a delivered sample (gas or oil)

6 = Maximum value allowed by contract (only if higher than measured oil tank sample)

7 = Maximum value allowed by contract (only if higher than measured gas or oil as delivered sample)

8 = Missing Data (maximum potential value from Table D-6 for oil or gas)

9 = Actual measured value from daily sample

^{9 =} Actual measured value from daily sample

^{10 =} Actual measured value from most recent shipment or lot (gas)

TABLE 4: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			UNIT DATA					
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			NO _x EMISSIONS DATA	A				
NO _x Emission Rate	320	1	Record type code				3	I3
Data		4	Unit/Stack ID				6	A6
		10	Monitoring system ID				3	A3
		13	Date		YYMMDD		6	I6
		19	Hour		НН	00-23	2	I2
		21	Percent monitor data availability for NO _x emission rate calculations		%	0.0-100.0	5	F5.1
		26	F-factor converting NO _x concentrations to emission rates				10	F10.1
		36	Average NO _x emission rate for the hour		lb/mmBtu		6	F6.3
		42	Adjusted average NO _x emission rate for the hour		lb/mmBtu		6	F6.3
		48	Operating load range corresponding to gross load for the hour			01-10	2	I2
		50	Formula ID from monitoring plan for hourly NO _x emission rate				3	A3
		53	Method of determination code ⁵			01-12, 14,21,23, 25,54,55	2	12
				•	Total Record	Length	54	
NO _x Emission Rate	323	1	Record type code				3	13
Alternative Estimation		4	Unit/Pipe ID				6	A6
Parameters for Oil		10	Monitoring system ID				3	A3
and Gas		13	Date		YYMMDD		6	16
(Madified)		19	Hour		НН	00-23	2	I2
(Modified)		21	Parameters status flag (Y-in spec, N-out of spec, X-parameters data missing or invalid, W-operation above highest tested heat input point, Z-operation below lowest tested heat input point)			Y,N,X, W,Z	1	A1
		22	Average NO _x emission rate for the hour		lb/mmBtu		6	F6.3
		28	Reserved				6	
		34	Reserved				6	
		40	Segment ID of correlation curve				3	A3
					Total Recor	d Length	42	

TABLE 4: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			UNIT DATA					
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			NO _x EMISSIONS DATA	A				
NO _x Emission Rate	324	1	Record type code				3	13
Estimation Based on Appendix E		4	Unit/Pipe ID				6	A6
(New)		10	NO _x monitoring system ID				3	A3
(New)		13	Fuel flow monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Parameters status flag (Y-in spec, N-out of spec, X-parameters data missing or invalid, W-operation above highest tested heat input point, Z-operation below lowest tested heat input point)			Y,N,X, W,Z	1	A1
		25	Average NO _x emission rate for the hour for fuel type		lb/mmBtu		6	F6.3
		31	NO_x mass emission rate for the hour for fuel type		lb/hr		11	F11.2
		42	Segment ID of correlation curve				3	A3
		45	Flag to indicate multiple or single fuel types combusted (M-multiple, S-single)			M,S	1	A1
		•			Total Record	Length	45	
NO _x Emission Rate Estimation Based	325	1	Record type code				3	I3
on Appendix E for		4	Unit/Pipe ID				6	A6
Multiple Fuel Hours		10	Date		YYMMDD		6	I6
(New)		16	Hour		НН	00-23	2	12
		18	Average NO _x emission rate for all fuels during multiple fuel hours		lb/mmBtu		6	F6.3
					Total Record	Length	23	
NO _x Mass Emissions	328	1	Record type code				3	13
		4	Unit/Stack/Pipe ID				6	A6
(New)		10	Date		YYMMDD		6	I6
Subpart H Only		16	Hour		HH	00-23	2	I2
		18	Unit operating time			0.00-1.00	4	F4.2
		22	NO_x mass emission rate during unit operation	Optional	lb/hr		10	F10.1
		32	Total NO _x mass emissions for the hour		lb		10	F10.1
		42	Formula ID from monitoring plan for total NO_x mass				3	A3
		45	NO _x methodology for the hour ¹⁰				10	A10
		55	Heat input rate methodology for the hour 10				10	A10
					Total Recor	d Length	64	

TABLE 4: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			UNIT DATA					
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			CO2 MASS EMISSIONS D	ATA				
CO ₂ Mass Emissions Data	330	1	Record type code				3	13
		4	Unit/Stack/Pipe ID				6	A6
(Modified)		10	Date		YYMMDD		6	16
ARP Only		16	Hour		НН	00-23	2	I2
		18	CO ₂ mass emission rate for the hour		ton/hr		10	F10.1
		28	Formula ID from monitoring plan for hourly CO ₂ mass emission rate				3	A3
		31	Reserved				2	
		33	Total CO ₂ mass emissions for the hour	Optional	ton		10	F10.1
		43	Use of diluent cap value for CO ₂ calculation for this hour (Y-cap used)	CEMS only		Y	1	A1
					Total Recor	d Length	43	
CO ₂ Mass Emissions	331	1	Record type code				3	13
Estimation		4	Unit/Stack ID				6	A6
Parameters		10	Date		YYMMDD		6	16
ARP Only		16	Total daily combustion-related CO ₂ mass emissions adjusted for CO ₂ retained in flyash		ton		10	F10.1
		26	Total daily sorbent-related CO ₂ mass emissions		ton		10	F10.1
		36	Total daily CO ₂ mass emissions		ton		10	F10.1
					Total Recor	d Length	45	
			QUALIFYING LOW MASS EMISSIO	NS UNIT I	OATA			
Hourly Emissions Data for Qualifying	360	1	Record type code				3	13
Low Mass Emissions Units		4	Unit ID				6	A6
		10	Date		YYMMDD		6	16
(New)		16	Hour		НН	00-23	2	12
LME Only		18	Unit operating time ¹⁸			0.0-1.00	4	F4.2
		22	Gross unit load during unit operation		MWe		6	16
		28	Steam load		1000 lb/hr		6	16
		34	Total hourly heat input (from all fuels)		mmBtu		7	F7.1
		41	Fuel type 19				3	A3
		44	SO ₂ mass emissions	ARP only	lb		6	F6.1
		50	NO _x mass emissions		lb		6	F6.1
		56	CO ₂ mass emissions	ARP only	ton		9	F9.1
		65	Control status (C-controlled, U-uncontrolled)			C,U	1	A1
		66	NO _x methodology for the hour ¹⁰				10	A10
		76	Heat input rate methodology for the hour ¹⁰				10	A10
		<u> </u>			Total Record	Length	85	

For LME units using long term fuel flow and reporting RT 305, report 1.00 for each hour in which any operation occurred.

See instructions for allowable codes. If multiple fuels are burned, report the fuel used to determine mass emissions (fuel with the highest SO_2 , CO_2 , and/or NO_x emission factor). See §§ 75.19(c)(3)(i), (4)(i), and (5)(i).

TABLE 5: MONITORING PLAN FILE RECORD STRUCTURES

			MONITORING PLAN INFOR	RMATIO	ON			
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Stack/Pipe Header	503	1	Record type code				3	I3
Definition Table		4	Stack/Pipe ID				6	A6
(Modified)		10	Stack/Pipe description or name				20	A20
		30	Unit ID for associated unit				6	A6
		36	Reserved				1	
		37	Reserved				6	
		43	Reserved				6	
		49	Activation date		YYMMDD		6	16
		55	Retirement date		YYMMDD		6	16
		61	Bypass stack flag (B-bypass)			В	1	A1
		62	Stack exit height above ground level		ft		4	I4
		66	Ground level elevation above sea level		ft		5	15
		71	Inside cross-sectional area at flue exit		ft ²		4	I4
		75	Inside cross-sectional area at flow monitor location		ft ²		4	I4
				1	Total Reco	rd Length	78	
Unit Information	504	1	Record type code				3	I3
(New)		4	Unit ID				6	A6
(1.0)		10	Unit type ¹⁰				3	A3
		13	Maximum hourly heat input capacity		mmBtu		7	F7.1
		20	Date of first commercial operation		YYYYMMDD		8	I8
		28	Unit retirement date		YYYYMMDD		8	18
		36	Stack exit height above ground level		ft		4	I4
		40	Ground level elevation above sea level		ft		5	15
		45	Inside cross-sectional area at flue exit		ft ²		4	I4
		49	Inside cross-sectional area at flow monitor location		ft ²		4	I4
					Total Reco	rd Length	52	
Program Indicator	505	1	Record type code				3	13
for Report		4	Unit ID				6	A6
(New)		10	Program/Reporting requirements for which EDR is submitted ²⁰				10	A10
		20	Unit classification 10				2	A2
		22	Reporting frequency (OS-ozone season, Q-quarterly)			OS,Q	2	A2
		24	Program participation date		YYYYMMDD		8	18
		32	State regulation code (per State instructions)	OTC and Subpart H only			10	A10
		42	State or local regulatory agency code (see instructions)	OTC and Subpart H only			4	A4
			<u> </u>	l omy	Total Reco	rd Length	45	
EIA Cross	506	1	Record type code			- 10	3	13
Reference	500	4	Unit ID				6	A6
Information		10	Acid Rain Program or Subpart H monitoring				6	A6
(New)			location ID					
			EIA due ID				5	A5
			EIA flue ID				5	A5
			EIA reporting year			3.7	4	I4
			EIA reporting indicator (N-not reporting EIA forms)			N	1	A1
		31	ARP/Subpart H facility/ORISPL number				6	I6
		37	EIA facility number				6	I6
					Total Reco	rd Length	42	

²⁰ Available codes are: ARP, NBP, OTC-SUBH, SUBH, SIP

TABLE 5: MONITORING PLAN FILE RECORD STRUCTURES

			MONITORING PLAN INFOR	RMATIO	ON			
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Fuel Usage Data	507	1	Record type code				3	I3
to Qualify as a Peaking Unit or an		4	Unit ID				6	A6
Acid Rain		10	Current calendar year or ozone season		YYYY		4	I4
Program Gas-		14	Ozone Season or Year 1		YYYY		4	I4
Fired Unit		18	Ozone Season or Year 1 type (P-projected, A-actual, D-operating data)			P,A,D	1	A1
(New)		19	Ozone Season or Year 1 % capacity for peaking units or % heat input for gaseous fuel		%	0.0-100.0	5	F5.1
		24	Ozone Season or Year 2		YYYY		4	I4
		28	Ozone Season or Year 2 type (P-projected, A-actual, D-operating data)			P,A,D	1	A1
		29	Ozone Season or Year 2 % capacity for peaking units or % heat input from gaseous fuel		%	0.0-100.0	5	F5.1
		34	Ozone Season or Year 3		YYYY		4	I4
		38	Ozone Season or Year 3 type (P-projected, A-actual, D-operating data)			P,A,D	1	A1
		39	Ozone Season or Year 3 % capacity for peaking units or % heat input from gaseous fuel		%	0.0-100.0	5	F5.1
		44	Three ozone season or year average annual capacity for peaking units or % heat input from gaseous fuel		%	0.0-100.0	5	F5.1
		49	Type of qualification (GF-gas-fired unit, PK-peaking unit, SK-ozone season peaking unit)			GF,PK, SK	2	A2
		51	Method of qualifying as a peaking unit or as a gas- fired unit per § 72.2 10				3	A3
		l		l	Total Record	d Length	53	
Subpart H	508	1	Record type code				3	13
Reporting		4	Stack/Unit/Pipe ID				6	A6
Frequency Change (New)		10	New reporting frequency (OS-ozone season only, Q-quarterly)			OS, Q	2	A2
		12	Begin date of new reporting frequency		YYYYMMDD		8	18
Subpart H Only		20	[Reserved]				8	
		28	[Reserved]				1	
	710		In the state of th	ı	Total Reco	rd Length	28	**
Monitoring Systems/	510	1	Record type code				3	I3
Analytical		4	Unit/Stack/Pipe ID				6	A6
Components		10	Component ID				3	A3
Table		13	Monitoring system ID			A C D II	3	A3
(Modified)		16	Status (A-add, C-correct, D-delete, U-unchanged) System parameter monitored ²¹			A,C,D,U	1	A1
		17					4	A4
		21 23	Primary/backup designation ²² Component type code ²³				2	A2
		23	Sample acquisition method ¹⁰				4	A4 A3
		30	Manufacturer				3 25	A3 A25
		55 70	Model/version Serial number				15 20	A15 A20
		90	Reserved				6	A20
		90 96	Reserved				4	
		100	First date system reported data		YYYYMMDD		8	18
		100	Last date system reported data		YYYYMMDD		8	18 I8
		100	Past date system reported data	J	Total Record	Length	115	10
L					1 otal Recolu	20115011	115	

Limited to a table of codes: System Parameter: CO2, FLOW, GAS, H2O, LTGS, LTOL, NOX, NOXC, O2, OILM, OILV, OP, SO2

Limited to a table of codes: Primary/Backup Designation: P-primary, B-regular non-redundant backup, DB-data backup, RB-redundant backup, RM-reference method backup

Limited to a table of codes: Component Type:

BGFF, BOFF, CALR, CO2, CO2A, CO2H, CO2L, DAHS, DL, DP, FLC, FLOW, GCH, GFFM, H2O, NOX, NOXA, NOXH, NOXL, O2D, O2DA, O2DH, O2DL, O2W, O2WA, 02WD, O2WH, O2WL, OFFM, OP, PLC, PRB, PRES, SO2, SO2A, SO2H, SO2L, TEMP

TABLE 5: MONITORING PLAN FILE RECORD STRUCTURES

			MONITORING PLAN INFO	RMATI(ON			
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Formula Table	520	1	Record type code				3	I3
		4	Unit/Stack/Pipe ID				6	A6
		10	Submission status (A-add, C-correct, D-delete, U-unchanged)			A,C,D,U	1	A1
		11	Formula ID				3	A3
		14	Parameter monitored ¹⁰				4	A4
		18	Formula code 10				5	A5
		23	Formula text				200	A200
					Total Reco	rd Length	222	
Span Table	530	1	Record type code				3	13
(Modified)		4	Unit/Stack ID				6	A6
		10	Parameter monitored ¹⁰				4	A4
		14	Scale (H-high, L-low)			H,L	1	A1
		15	Method for calculating MPC/MEC/MPF (F-formula, HD-historical data, OL-other limit, TR-test results, TB-table in Part 75, GS-gas fired only)			F,HD, OL,TR, TB,GS	2	A2
		17	MPC/MEC/MPF ²⁴				13	F13.3
		30	Maximum potential NO _x emission rate		lb/mmBtu		6	F6.3
		36	Span value in units of daily calibration				13	F13.3
		49	Full scale range in units of daily calibration				13	F13.3
		62	Daily calibration units of measure ²⁵				5	A5
		67	Reserved				1	
		68	Span effective date		YYMMDD		6	I6
		74	Span effective hour		НН		2	I2
		76	Span inactivation date		YYMMDD		6	16
		82	Span inactivation hour		НН		2	I2
		84	Dual spans required (D-dual ranges required/installed, O-dual ranges required/use of optional default value elected) (Blank if not applicable)			D,O	1	A1
		85	Default high range value				5	15
		90	Flow rate span value in SCFH		scfh		9	19
		99	Flow rate full scale value in SCFH		scfh		9	19
					Total Reco	rd Length	107	

Provide SO₂ and NO_x MPC/MEC in ppm, rounded to the nearest whole number. Provide CO₂ MPC in %. Provide flow maximum potential flowrate (MPF) in sefh.

For SO₂ and NO_x use PPM. For CO₂ or O₂ use %. For flow use units corresponding to calibration as follows: ACFH, ACFM, AFPM, INH20, KACFH, KACFM, KAFPM, KSCFH, KSCFM, KSFPM, MACFH, MSCFH, SCFH, SCFM, SFPM.

TABLE 5: MONITORING PLAN FILE RECORD STRUCTURES

			MONITORING PLAN INFO	RMATIC	ON			
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Maximums,	531	1	Record type code				3	I3
Minimums, Defaults and		4	Unit/Stack/Pipe ID				6	A6
Constants		10	Parameter ¹⁰				4	A4
(New)		14	Value of default, maximum, minimum or constant				13	F13.3
		27	Units of measure ²⁶				7	A7
		34	Purpose or intended use 10				3	A3
		37	Type of fuel 10				3	A3
		40	Indicator of use for controlled/uncontrolled hours (A-any hour, C-controlled, U-uncontrolled)			A,C,U	1	A1
		41	Source of value 10				4	A4
		45	Value effective date		YYYYMMDD		8	18
		53	Value effective hour		НН		2	I2
		55	Value no longer effective date		YYYYMMDD		8	18
		63	Value no longer effective hour		НН		2	I2
		65	SO ₂ emission factor for low mass emissions units	ARP only	lb/mmBtu		6	F6.4
					Total Reco	rd Length	70	
Unit and Stack Operating Load	535	1	Record type code				3	I3
Data		4	Unit/Stack/Pipe ID				6	A6
(New)		10	Load units (MW-MWe, ST-1000lb steam)			MW,ST	2	A2
		12	Maximum hourly gross load				6	I6
		18	Designated normal load	OTC only		L,M,H	1	A1
		19	Single load testing only (for flow RATA or, for OTC only, heat input RATA) (P-peaking unit, B-bypass stack, and, for OTC only, S-single load test approved by State)			B,P,S	1	A1
'					Total Reco	rd Length	19	
Range of	536	1	Record type code				3	I3
Operation, Normal Load, and		4	Unit/Stack ID				6	A6
Load Usage (New)		10	Upper boundary of range of operation		MWe, 1000 lb/hr		6	16
		16	Lower boundary of range of operation		MWe, 1000 lb/hr		6	16
		22	Two most frequently-used load levels			L,M,H	3	A3
		25	Designated normal load			L,M,H	1	A1
		26	Second designated normal load	Optional		L,M,H	1	A1
		27	Date of historical load analysis (activation date)		YYYYMMDD		8	18
		35	Inactivation date		YYYYMMDD		8	18
					Total Reco	rd Length	42	

Limited to a table of codes: %, %H20, BBLHR, BTUHSCF, BTULB, BTUHR, GALHR, HSCF, LB, LBBBL, LBGAL, LBHR, LBM3, LBMMBTU, LBSCF, M3HR, MMBTUHR, MMBTUHR, MMBTULB, PPM, SCFH, MMBTUMW, TNMMBTU

TABLE 5: MONITORING PLAN FILE RECORD STRUCTURES

			MONITORING PLAN INFOR	RMATIO	ON			
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Fuel Flowmeter	540	1	Record type code				3	I3
Data		4	Unit/Pipe ID				6	A6
(Modified)		10	Monitoring system ID				3	A3
		13	Parameter monitored			GAS, LTGS, LTOL, OILM, OILV	4	A4
		17	Type of fuel 10				3	A3
		20	Maximum system fuel flow rate				10	F10.1
		30	Units of measure for maximum fuel flow rate ²⁷				5	A5
		35	Source of maximum rate (URV-upper range value, UMX-unit max)			URV, UMX	3	A3
		38	Initial accuracy test method				11	A11
		49	Reserved				11	
		60	Submission status (A-add, C-correct, D-delete, U-unchanged)			A,C,D,U	1	A1
				•	Total Reco	rd Length	60	
Reasons for Monitoring	550	1	Record type code				3	I3
System Downtime		4	Unit/Stack/Pipe ID				6	A6
or Missing Parameter		10	Parameter ¹⁰				4	A4
Parameter		14	Monitoring system ID				3	A3
(Optional)		17	Begin date		YYMMDD		6	I6
		23	Begin hour		НН	00-23	2	I2
		25	End date		YYMMDD		6	I6
		31	End hour		HH	00-23	2	I2
		33	Missing data reason code 10			1-99	2	I2
		35	Missing data description ²⁸				75	A75
		110	Corrective action description				75	A75
			,		Total Reco	rd Length	184	
Monitoring System	556	1	Record type code				3	I3
Re-certification,		4	Unit/Stack/Pipe ID				6	A6
Maintenance, or Other		10	Component ID				3	A3
Events		13	Monitoring system ID			1 000	3	A3
(New)		16	Event code ¹⁰			1-999	3	I3
(1.6.1)		19	Code for required test ¹⁰			1-99	2	I2
		21	Date of event		YYYYMMD D		8	18
		29	Hour of event		НН	00-23	2	I2
		31	Beginning of conditionally valid period (probationary calibration error test) date		YYYYMMDD		8	18
		39	Beginning of conditionally valid period (probationary calibration error test) hour		НН	00-23	2	12
		41	Date that last test is successfully completed		YYYYMMDD		8	18
		49	Hour that last test is successfully completed		НН	00-23	2	I2
		51	Indicator that conditionally valid data were reported at end of quarter			С	1	A1
					Total Reco	rd Length	51	

For volumetric flow meters for oil use SCFH (scf/hr); GALHR (gal/hr); BBLHR (barrels/hr); M3HR (M³/hr). For mass of oil flow meters use LBHR. For gas flow meters use HSCF (for 100 scfh).

Optional field. Provide information if code does not adequately explain reason or event or if code 99 (OTHER) is used.

TABLE 5: MONITORING PLAN FILE RECORD STRUCTURES

			MONITORING PLAN INFOR	RMATIO	ON			
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Appendix E NO _x	560	1	Record type code				3	I3
Correlation Curve Segments		4	Unit/Pipe ID				6	A6
		10	Test date		YYYYMMDD		8	18
(New)		18	Test number				2	I2
		20	Operating level			0-99	2	I2
		22	Segment ID				3	A3
		25	NO _x monitoring system ID				3	A3
		28	Heat input rate #1 (low)		mmBtu/hr		7	F7.1
		35	Heat input rate #2 (high)		mmBtu/hr		7	F7.1
		42	NO _x emission rate #1		lb/mmBtu		6	F6.3
		48	NO _x emission rate #2		lb/mmBtu		6	F6.3
			Type of fuel ¹⁰				3	A3
		57	Identical unit group ID (if applicable)	OTC only			8	A8
				•	Total Reco	rd Length	64	
Monitoring	585	1	Record type code				3	13
Methodology Information		4	Unit ID				6	A6
			Parameter ¹⁰				4	A4
(New)		14	Monitoring methodology ¹⁰				10	A10
		24	Type of fuel associated with methodology ¹⁰				3	A3
		27	Primary/secondary methodology indicator			P,S	1	A1
		28	Missing data approach for methodology 10				6	A6
		34	Methodology start date		YYYYMMDD		8	I8
		42	Methodology end date		YYYYMMDD		8 49	I8
Control	586	1	Record type code		Total Reco	ra Lengtn	3	I3
Equipment	300	4	Unit ID				6	A6
Information			Parameter (NOX, SO2, PART)				4	A4
(New)		14	Control equipment code ¹⁰				6	A6
(ivew)		20	Primary/secondary controls indicator			P,S	1	A1
		21	Original installation (O-original)			0	1	A1
		22	Controls install date		YYYYMMDD	O	8	I8
		30	Controls optimization date		YYYYMMDD		8	I8
		38	Controls retirement date		YYYYMMDD		8	I8
		46	Seasonal controls indicator(S-ozone season only)	OTC and		S	1	A1
				Subpart H only				
]					Total Reco	rd Length	46	
Unit Fuel Type	587	1	Record type code				3	I3
(New)		4	Unit ID				6	A6
(ivew)			Fuel types combusted 10				3	A3
			Fuel type start date		YYYYMMDD		8	18
			Fuel type end date		YYYYMMDD		8	18
		29	Primary/secondary/emergency/startup fuel indicator			E,I,P,S	1	A1
		30	Ozone season fuel switching flag (S-burned during ozone season for ozone control)	OTC and Subpart H only		S	1	A1
		31	Demonstration method to qualify for monthly fuel sampling for GCV	3,		GHS, GGC, GOC	3	A3
		34	Demonstration method to qualify for daily fuel sampling for %S	ARP only		SHS, SGC	3	A3
					Total Record 1	Length	36	

TABLE 6: CERTIFICATION TEST DATA AND RESULTS

CODE COL DATA ELEMENT DESCRIPTION NOTES ONTIS RANGE LENGTH (F)				CERTIFICATION TES	ST DATA	4			
Total Record Length				DATA ELEMENT DESCRIPTION		UNITS	RANGE	LENGTH	FORMAT (FTN)
Calibration Error Test Data and Results 10 Component ID 3 3 A A A Component ID 3 A A A A A A A A A				CALIBRATION/ERROR	TESTS				
Error Test Data and 10 Component ID 3 3 A A Results 13 Monitoring system ID 3 A A A A A A A A A	7-Day	600						3	13
Data and Results 10 Component ID 3 3 A A A									A6
Modified	Data and			•					A3
Modified	Results							_	A3
1	(Modified)		_						16
37 Reference value 13 F1 F1 F1 F1 F1 F1 F1	(HH	00-23		I2
So								_	F13.3
63 Results (calibration error or R-A)									F13.3
Check Data Che						0./	0.0.100.0		F13.3
69 Reference signal or calibration gas level (Z-zero, M-mid, H-high) 70 Span scale (H-high, L-low) H,L 1 A 71 Test number 2 1 Test number 73 Reason for test (C-initial cert, D-diagnostic, R-recert) Total Record Length 74						%, ppm		-	F5.1
M-mid, H-high 70 Span scale (H-high, L-low) 71 Test number 73 Reason for test (C-initial cert, D-diagnostic, R-recert) Total Record Length 74							0,1	1	I1
Test number Reason for test (C-initial cert, D-diagnostic, R-recert) Total Record Length 74			69	M-mid, H-high)			Z,M,H	1	A1
Total Record Length Total Record Length							H,L		A1
R-recert Total Record Length 74								2	I2
Linearity Check Data Check Data Check Data Check Data Component ID Co			73				C,D,R	2	A2
Linearity Check Data (Modified) 1 Record type code (Unit/Stack ID) 6 A (Modified) 10 Component ID 3 A 13 Monitoring system ID 3 A 16 Date YYMMDD 6 I 22 Time HHMM 0000-2359 4 I 26 Instrument span 13 F1 39 Reference value 13 F1			ı			Total Reco	ord Length	74	
Check Data 4 Unit/Stack ID 6 A (Modified) 10 Component ID 3 A 13 Monitoring system ID 3 A 16 Date YYMMDD 6 I 22 Time HHMM 0000-2359 4 I 26 Instrument span 13 F1 39 Reference value 13 F1		1	1		KS	1			_
(Modified)	Linearity	601		**					13
13 Monitoring system ID 3 A	Check Data								A6
16 Date YYMMDD 6 I	(Modified)			±					A3
22 Time						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			A3
26 Instrument span 13 F1 39 Reference value 13 F1			_				0000 2250		I6
39 Reference value 13 F1						HHMM	0000-2359		I4
			_						F13.3 F13.3
			59 52	Measured value				13	F13.3 F13.3
65 Calibration gas level (Z-zero, L-low, M-mid,			_	Calibration gas level (Z-zero, L-low, M-mid,			7 I M H		A1
H-nign)			66						A1
							11,L		I2
							Δ		A1
Total Record Length 69			0)	indicator of aborted test (A-aborted test)		Total Reco		•	Al
	Linearity	602	1	Record type code			<u> </u>		13
Check 4 Unit/Stack ID 6 A	Check								A6
Results	Kesults		10						A3
(Modified) 13 Monitoring system ID 3 A	(Modified)		13	Monitoring system ID				3	A3
16 Date YYMMDD 6 I			16	Date		YYMMDD		6	16
22 Instrument span 13 F1			22	Instrument span				13	F13.3
			35	Mean of reference values					F13.3
			48					13	F13.3
						%, ppm		5	F5.1
							0,1	1	I1
67 Reserved 4								4	
71 Calibration gas level (Z-zero, L-low, M-mid, H-high) Z,L,M,H 1			71	Calibration gas level (Z-zero, L-low, M-mid, H-high)			Z,L,M,H	1	A1
			72				H,L	1	A1
			73					2	12
75 Pageon for tast (C initial cort D diagnostic				Reason for test (C-initial cert, D-diagnostic,			C,D,R,Q, RG.RO G	2	A2
Total Record Length 76	1	1	l	and the second s	<u> </u>	Total Reco		76	

TABLE 6: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA	A			
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			LEAK CHECKS					
Flow Leak	603	1	Record type code				3	13
Check Results		4	Unit/Stack ID				6	A6
(Modified)		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	16
		22	Hour		НН	00-23	2	12
		24	Status (P-pass, F-fail)			P,F	1	A1
		25	Reserved				4	
		29	Reason for test (D-diagnostic, Q-QA, G-grace period QA)			D,Q,G	2	A2
,					Total Reco	ord Length	30	
			FLOW/LOAD CHEC	CKS				
Reference	605	1	Record type code				3	13
Data for Flow-to-Load		4	Unit/Stack ID				6	A6
Ratio or Gross Heat		10	Monitoring system ID				3	A3
Rate Evaluation		13	Reference flow RATA end date		YYYYMMDD		8	18
(New)		21	Reference RATA end time		ННММ	0000-2359	4	I4
(11011)		25	Test number				2	I2
		27	Average gross unit load (MWe or Steam)		MWe, 1000 lb/hr steam		6	I6
		33	Operating level (L-low, M-mid, H-high) (N-normal, for peaking units only)			L,M,H,N	1	A1
		34	Average reference method flow rate during reference flow RATA		scfh		10	I10
		44	Reference flow/load ratio				6	F6.2
		50	Average hourly heat input rate during RATA		mmBtu/hr		7	F7.1
		57	Reference gross heat rate (GHR) value		Btu/kw-hr, Btu/lb steam		6	16
'		<u> </u>			Total Reco	ord Length	62	

TABLE 6: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA	\			
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			FLOW/LOAD CHEC	CKS				
Quarterly Flow-to-Load	606	1	Record type code				3	13
Ratio or		4	Unit/Stack ID				6	A6
Gross Heat Rate Check		10	Monitoring system ID				3	A3
(New)		13	Calendar quarter and year		QYYYY		5	I5
		18	Test basis indicator (Q-flow-to-load ratio; H-gross heat rate)			Q,H	1	A1
		19	Bias adjusted flow rates used (Y,N)			Y,N	1	A1
		20	Average absolute % difference between reference ratio (or GHR) and hourly ratios (or GHR values), $E_{\rm f}$		%	0.0-100.0	5	F5.1
		25	Result (P-pass, F-fail, N-<168 hours within ± 10% of average load, E-<168 hours for data analysis after exempted hours removed)			P,F,N,E	1	A1
		26	Number of hours used in quarterly flow-to-load or GHR analysis		hrs		4	I4
		30	Number of hours excluded for different type of fuel		hrs		4	I4
		34	Number of hours excluded for load ramping up or down		hrs		4	I4
		38	Number of hours excluded for scrubber bypass		hrs		4	I4
		42	Number of excluded hours preceding a normal load flow RATA		hrs		4	I4
		46	Number of excluded hours preceding a successful diagnostic test, following a documented monitor repair, or following a major component replacement		hrs		4	I4
		50	Number of hours excluded for flue gases discharging simultaneously through a main stack and bypass stack		hrs		4	I4
'					Total Reco	ord Length	53	

TABLE 6: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA	\			
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			RATA/BIAS TEST	S				
RATA and Bias Test	610	1	Record type code				3	13
Data		4	Unit/Stack ID				6	A6
(Modified)		10	Monitoring system ID				3	A3
		13	Run start date		YYMMDD		6	I6
		19	Run start time		ННММ	0000-2359	4	I4
		23	Run end date		YYMMDD		6	I6
		29	Run end time		ННММ	0000-2359	4	I4
		33	Units of measure (1-ppm, 2-lb/mmBtu, 3-scfh, 4-%CO ₂ , 5-%O ₂ 6-mmBtu/hr (OTC NBP only), 7-%H ₂ 0)			1-7	1	I1
		34	Value from CEM system being tested				13	F13.3
		47	Value from reference method, adjusted as necessary for moisture and/or calibration bias				13	F13.3
		60	Run number				2	I2
		62	RATA run status flag 0 - RATA used, run not used 1 - run data used in calculating relative accuracy and bias 9 - test aborted			0,1,9	1	I1
		63	Operating level (L-low, M-mid, H-high) (Use N-normal for peaking units only)			L,M,H,N	1	A1
		64	Gross unit load		MWe, 1000 lbs/hr		6	16
		70	Test number				2	I2
					Total Reco	ord Length	71	_

TABLE 6: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA	4			
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			RATA/BIAS TEST	S				
RATA and	611	1	Record type code				3	I3
Bias Test Results		4	Unit/Stack ID				6	A6
(Modified)		10	Monitoring system ID				3	A3
		13	RATA end date		YYMMDD		6	16
		19	RATA end time		ННММ	0000-2359	4	I4
		23	Reference method used 10				11	A11
		34	Units of measure (1-ppm, 2-lb/mmBtu, 3-scfh, 4-%CO ₂ ,5-%O ₂ , 6-mmBtu/hr, 7-%H ₂ 0)			1-7	1	I1
		35	Arithmetic mean of CEMS values				13	F13.3
		48	Arithmetic mean of reference method values				13	F13.3
		61	Arithmetic mean of the difference data				13	F13.3
		74	Standard deviation of difference data				13	F13.3
		87	Confidence coefficient				13	F13.3
		100	Relative accuracy				5	F5.2
		105	Tabulated t- value (bias test)				6	F6.3
		111	Bias adjustment factor at this load level				5	F5.3
		116	Operating level (L-low, M-mid, H-high) (Use N-normal, for peaking units only)			L,M,H,N	1	A1
		117	Average gross unit load (MWe or steam)		MWe, 1000 lbs/hr		6	16
		123	Reserved				4	
		127	Indication of normal load (N-normal, otherwise, blank)			N	1	A1
		128	Alternative performance specification (APS) flag ⁷			0,1	1	I1
		129	Test number				2	I2
		131	Reason for RATA (C-initial cert, D-diagnostic, R-recert, Q-QA, G-grace period QA)			C,D,R,Q, RQ,G,QD	2	A2
		133	Number of load levels comprising test (1 for gas RATAs, 1-3 for flow or heat input RATAs)			1-3	1	I1
		134	System bias adjustment factor for a multiple load flow RATA				5	F5.3
					Total Reco	ord Length	138	

TABLE 6: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	T DAT	A			
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			RATA/BIAS TEST	S				
Reference Method	614	1	Record type code				3	13
Supporting Data for Flow		4	Unit/Stack ID				6	A6
RATA Tests		10	Monitoring system ID				3	A3
(Methods 2,		13	Test number				2	I2
2F, 2G, and 2H)		15	Operating level			H,M,L,N	1	A1
Run Level		16	Run number				2	I2
Data		18	Run start date		YYYYMMDD		8	18
(New)		26	Run start time		HHMM	0000-2359	4	I4
		30	Run end date		YYYYMMDD		8	18
		38	Run end time		HHMM	0000-2359	4	I4
		42	Flow rate reference method(s) used			2F,2G, 2FH,2GH, M2H	3	A3
		45	Number of traverse points				2	12
		47	P _{bar} , barometric pressure, in. Hg		in. Hg		5	F5.2
		52	P _g , stack static pressure, in. H ₂ O		in. H ₂ O		5	F5.2
		57	% CO ₂ in stack gas, dry basis		%		5	F5.1
		62	% O ₂ in stack gas, dry basis		%		5	F5.1
		67	CO ₂ and O ₂ reference method			3,3A	4	A4
		71	% moisture in stack gas		%H ₂ O		5	F5.1
		76	M _d , stack gas molecular weight, dry basis		lbs/lbs-mole		5	F5.2
		81	M _s , stack gas molecular weight, wet basis		lbs/lbs-mole		5	F5.2
		86	Stack diameter at test port location		ft		5	F5.2
		91	A _s , stack or duct cross-sectional area at test port		ft²		6	F6.1
		97	v_s , Average velocity for run, not accounting for wall effects		ft/sec		6	F6.2
		103	v _s , Average velocity for run, accounting for wall effects		ft/sec		6	F6.2
		109	Calculated wall effects adjustment factor (WAF) derived from this test run				6	F6.4
		115	Calculated WAF applied to all runs of this RATA			≥0.9700	6	F6.4
		121	Default WAF applied to all runs of this RATA			0.9900, 0.9950	6	F6.4
		127	Average stack flow rate, wet basis, adjusted if applicable for wall effects		scfh		10	I10
					Total Reco	ord Length	136	

TABLE 6: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	T DAT	A			
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			RATA/BIAS TEST	S				
Reference Method	615	1	Record type code				3	I3
Supporting		4	Unit/Stack ID				6	A6
Data for Flow RATA Tests		10	Monitoring system ID				3	A3
(Methods 2,		13	Test number				2	12
2F, 2G, and 2H)		15	Operating level			L,M,H,N	1	A1
Traverse		16	Run number				2	12
Point Level Data		18	Reference method probe type			S,P,AS, DA, DAT,SPH	4	A4
(New)		22	Probe ID				11	A11
		33	Pressure measurement device type			MN,MG, ET	2	A2
		35	Method 1 traverse point ID				3	A3
		38	Probe or pitot tube velocity calibration coefficient				5	F5.3
		43	Date of latest probe or pitot tube calibration		YYYYMMDD		8	18
		51	Average velocity differential pressure at traverse point		in. H ₂ O		5	F5.3
		56	Average of square roots of velocity differential pressures at traverse point		(in H ₂ O) ^{1/2}		5	F5.3
		61	T _s , stack temperature at traverse point		°F		5	F5.1
		66	Exterior Method 1 traverse point identifier			W	1	A 1
		67	Number of wall effects measurement points used to derive replacement velocity				2	I2
		69	Yaw angle of flow at traverse point		degrees	-179.9 to +180.0	6	F6.1
		75	Pitch angle of flow at traverse point		degrees	-179.9 to +180.0	6	F6.1
		81	Calculated velocity at traverse point, not accounting for wall effects		ft/sec		6	F6.2
		87	Replacement velocity at traverse point, accounting for wall effects		ft/sec		6	F6.2
					Total Reco	rd Length	92	
Reference Method	616	1	Record type code				3	I3
Supporting		4	Unit/Stack ID				6	A6
Data for Flow		10	Monitoring system ID				3	A3
RATA Tests		13	Test number				2	I2
(Method 2 and 2H,		15	Operating level		L,M,H,N		1	A1
default WAF only)		16	RATA end date		YYYYMMDD		8	18
- '		24	RATA end time		ННММ	0000-2359	4	I4
(New)		28	Default wall effects adjustment factor used			0.9900, 0.9950	6	F6.4
					Total Reco	rd Length	33	

TABLE 6: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA	A			
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			CYCLE TIME TES	T				
Cycle Time	621	1	Record type code				3	I3
Test Data and Results		4	Unit/Stack ID				6	A6
(Modified)		10	Component ID				3	A3
(Modified)		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Start time		HHMM	0000-2359	4	I4
		26	End time		HHMM	0000-2359	4	I4
		30	Component cycle time		min		2	I2
		32	Stable starting monitor value				13	F13.3
		45	Stable ending monitor value				13	F13.3
		58	Calibration gas value				13	F13.3
		71	Calibration gas level (Z-zero, H-high)			Z,H	1	A1
		72	Total or system cycle time ²⁹		min		2	I2
		74	Reason for test (C-initial cert, D-diagnostic, R-recert)			C,D,R	2	A2
		76	Test number				2	I2
		ı			Total Reco	ord Length	77	
			ON LINE/OFF LINE CALIBRATION	DEMONS	TRATION			
Qualifying	623	1	Record type code				3	I3
Test for Off- line		4	Unit/Stack ID				6	A6
Calibration Error Tests		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
(New)		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Instrument span				13	F13.3
		37	Reference value				13	F13.3
		50	Measured value				13	F13.3
		63	Results (CE or R-A)		%,ppm	0.00-100.0	5	F5.1
		68	Alternative specification flag ⁷			0,1	1	I1
		69	Reserved				2	
		71	Calibration gas or reference signal level (Z-zero, M-mid, H-high)			Z,M,H	1	A1
		72	Span scale (H-high, L-low)			H,L	1	A1
		73	Off-line/On-line indicator (OFF-unit not operating, ON-unit operating)			ON,OFF	3	A3
		76	Reason for test (C-initial demonstration, D-diagnostic)			C,D	1	A1
		77	Test number				2	I2
					Total Reco	ord Length	78	

For NO_x and SO₂ emission rate (lb/mmBtu) systems, report the longer cycle time of the two component analyzers as the system cycle time.

TABLE 6: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DAT	A			
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			MISCELLANEOUS QA TEST	/ACTIVI	ГҮ			
Other QA	624	1	Record type code				3	I3
Activities		4	Unit/Stack/Pipe ID				6	A6
(New)		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Parameter				4	A4
		20	Activity/test completion date		YYYYMMDD		8	18
		28	Activity/test completion hour		НН	00-23	2	I2
		30	QA test activity description				20	A20
		50	Test result (P-pass, F-fail)			P,F	1	A1
		51	Reason for test (C-initial cert, D-diagnostic, R-recert, Q-QA)			C,D,R,Q, RQ	2	A2
		53	QA test code			01,02,03, 99	2	I2
					Total Reco	rd Length	54	
			FUEL FLOWMETER ACCURA	ACY CHE	CKS			
Fuel	627	1	Record type code				3	I3
Flowmeter Accuracy		4	Unit/Pipe ID				6	A6
Test		10	Component ID				3	A3
Q1)		13	Monitoring system ID				3	A3
(New)		16	Test completion date		YYYYMMDD		8	18
		24	Test completion hour		НН		2	I2
		26	Reinstallation date (leave blank for in-line test)		YYYYMMDD		8	18
		34	Reinstallation hour (leave blank for in-line test)		НН		2	I2
		36	Accuracy at low fuel flowrate (% of URV)		%		5	F5.1
		41	Highest accuracy at mid fuel flowrate (% of URV)		%		5	F5.1
		46	Accuracy at high fuel flowrate (% of URV)		%		5	F5.1
		51	Test method (L-lab comparison to reference meter, I-in-line comparison to master meter)			I,L	1	A1
		52	Test result (A-aborted, P-pass, F-fail)			A,P,F	1	A1
		53	Test number				2	I2
	(20		la transfer	ı	Total Reco	rd Length	54	**
Accuracy Test for	628	1	Record type code				3	I3
Orifice,		4	Unit/Pipe ID				6	A6
Nozzle, or		10	Component ID				3	A3
Venturi Type Fuel		13	Monitoring system ID		17777 A ADD		3	A3
Flowmeters		16	Test completion date Test completion hour		YYYYMMDD		8	18
		24	Accuracy determination at low level ³⁰		HH o/		2 5	I2
(New)		26 31	Accuracy determination at low level ** Accuracy determination methodology for low		%		4	F5.1
			level 10		2,			A4
		35	Highest accuracy determination at mid level ³⁰		%		5	F5.1
		40	Accuracy determination methodology for mid level 10				4	A4
		44	Accuracy determination at high level 30		%		5	F5.1
		49	Accuracy determination methodology for high level ¹⁰				4	A4
		53	Test result (A-aborted, P-pass, F-fail)			A,P,F	1	A1
		54	Test number		<u> </u>		2	I2
					Total Reco	rd Length	55	

Report either: (1) the highest individual accuracy of any of the three transmitters; or (2) the sum of the three transmitter accuracies; or (3) the total fuel flowmeter accuracy calculated according to AGA3 part 1, "General Equations and Uncertainty Guidelines."

TABLE 6: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA	A			
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			QUARTERLY FUEL FLOW-TO-L	OAD ANA	ALYSIS			
Baseline Data for Fuel-	629	1	Record type code				3	13
Flow-to-Load		4	Unit/Pipe ID				6	A6
Ratio or		10	Monitoring system ID				3	A3
Gross Heat Rate Check for Fuel		13	Completion date of most recent primary element inspection		YYYYMMDD		8	18
Flowmeters		21	Completion hour of most recent primary element inspection		НН		2	I2
(New)		23	Completion date of most recent flowmeter or transmitter accuracy test		YYYYMMDD		8	I8
		31	Completion hour of most recent flowmeter or transmitter accuracy test		НН		2	I2
		33	Beginning date of baseline period		YYYYMMDD		8	18
		41	Beginning hour of baseline period		НН		2	12
		43	Completion date of baseline period		YYYYMMDD		8	18
		51	Completion hour of baseline period		НН		2	I2
		53	Average fuel flow rate (100 scfh for gas and lb/hr for oil)				10	F10.1
		63	Average load (MWe or 1000 lb/stream/hr)				6	16
		69	Baseline fuel-flow-to-load ratio				6	F6.2
		75	Units of fuel-flow-to-load (1-100scfh/MWe, 2-100scfh/klb per hour steam, 3-(lb/hr)/MWe, 4-(lb/hr)/klb per hour steam load)			1-4	1	I1
		76	Average hourly heat input rate		mmBtu/hr		7	F7.1
		83	Baseline GHR		mmbtu/m		6	I6
		89	Units of baseline GHR (1 - Btu/kwh, 2 - Btu/lb			1-2	1	I0 I1
		6)	steam)			1-2	1	11
		90	Number of hours excluded due to co-firing		hrs		3	13
		93	Number of hours excluded due to ramping		hrs		3	13
		96	Number of excluded hours in lower 25% of range of operation		hrs		3	13
		99	Flag indicating baseline data collection is in progress and that < 4 calendar quarters have elapsed since quarter of the last flowmeter QA test			В	1	A1
1				<u> </u>	Total Reco	rd Length	99	
Quarterly	630	1	Record type code				3	I3
Fuel-Flow-to- Load Test for		4	Unit/Pipe ID				6	A6
Fuel		10	Monitoring system ID				3	A3
Flowmeters		13	Component ID				3	A3
(New)		16	Calendar quarter and year		QYYYY		5	15
(,		21	Test basis indicator (Q-flow-to-load ratio, H-gross heat rate)			Q,H	1	A1
		22	Quarterly average absolute % difference between baseline ratio (or baseline GHR) and hourly quarterly ratios (or GHR values), E _f		%	0.0-100.0	5	F5.1
		27	Result (P-pass, F-fail, N-<168 hours data, E-<168 hours of data after exemptions removed, B-baseline data collection in progress)			P,F,N,E,B	1	A1
		28	Number of hours used in the quarterly data analysis		hrs		4	I4
		32	Number of hours excluded due to co-firing		hrs		4	I4
		36	Number of hours excluded due to ramping		hrs		4	I4
		40	Number of excluded hours in lower 25% of range of operation		hrs		4	I4
l			L *		Total Reco	rd Length	43	

TABLE 6: CERTIFICATION TEST DATA AND RESULTS

	CERTIFICATION TEST DATA										
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)			
ALTERNATIVE MONITORING PETITION DATA											
Alternative	640	1	Record type code				3	I3			
Monitoring System		4	Unit/Stack ID				6	A6			
Approval		10	Component ID				3	A3			
Petition Data		13	Monitoring system ID				3	A3			
(Renumbered		16	AMS ID				6	A6			
from EDR		22	Date		YYMMDD		6	16			
v1.3 RT 630)		28	Hour		HH	00-23	2	I2			
		30	Hourly test data for alternative monitoring system				13	F13.3			
		43	Hourly lognormalized test data for alternative monitoring system				13	F13.3			
		56	Hourly test data for reference CEMS				13	F13.3			
		69	Fuel type code				2	I2			
		71	Operating level (L-low, M-mid, H-high) (Use N-normal for peaking units only)			L,M,H,N	1	A1			
		72	Gross unit load		MWe		6	16			
	Total Record Length 77										

TABLE 6: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA	1			
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
		_	ALTERNATIVE MONITORING I	PETITION	DATA	-		
Alternative Monitoring	641	1	Record type code				3	I3
System		4	Unit/Stack ID				6	A6
Approval Petition		10	Component ID				3	A3
Results and Statistics		13	Monitoring system ID				3	A3
(Renumbered		16	Unit of measure (1-ppm, 2-lb/mmBtu, 3-scfh, 4-%CO ₂ , 5-%O ₂ , 6-mmBtu/hr, 7-%H ₂ O)			1-7	1	A1
from EDR v1.3 RT 631)		17	Arithmetic mean of AMS values				13	F13.3
V1.5 K1 051)		30	Arithmetic mean of CEM values				13	F13.3
		43	Arithmetic mean of differences of paired AMS and CEM values				13	F13.3
		56	Variance of differences				13	F13.3
		69	Variance of measured values of AMS				13	F13.3
		82	Variance of measured values for CEM				13	F13.3
		95	F-statistic				13	F13.3
		108	Critical value of F at 95% confidence level for sample size				13	F13.3
		121	Coefficient of correlation (Pearson's r) of CEM and AMS data				13	F13.3
		134	Shapiro-Wilk test statistic (W) for AMS data				13	F13.3
		147	Shapiro-Wilk test statistic (W) for CEMS data				13	F13.3
		160	Lognormally adjusted data used in final analysis (1-yes, 0-no)			0,1	1	I1
		161	Autocorrelation coefficient (ρ) for AMS data				13	F13.3
		174	Autocorrelation coefficient (ρ) for CEM data				13	F13.3
		187	Autocorrelation coefficient (ρ) for differences of paired AMS and CEM data				13	F13.3
		200	Adjustment for autocorrelation used in final analysis (1-yes, 0-no)			0,1	1	I1
		201	Covariance of alternative monitoring data and associated lag(1) values				13	F13.3
		214	Covariance of continuous emission monitoring data and associated lag(1) values				13	F13.3
		227	Covariance of differences of paired AMS and CEM data				13	F13.3
		240	Standard deviation of AMS data				13	F13.3
		253	Standard deviation of CEM data				13	F13.3
		266	Standard deviation of differences of paired AMS and CEM data				13	F13.3
		279	Standard deviation of lag(1) AMS data				13	F13.3
		292	Standard deviation of lag(1) CEM data				13	F13.3
		305	Standard deviation of lag(1) differences of paired AMS and CEM data				13	F13.3
		318	Variance inflation factor for AMS data				13	F13.3
		331	Variance inflation factor for CEM data				13	F13.3
		344	Variance inflation factor for difference of paired AMS and CEM data				13	F13.3
['		1	I	<u>. </u>	Total Rec	ord Length	356	

TABLE 6: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA	1			
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			LOW MASS EMISSIONS CERTIF	ICATION	DATA			
Qualifying	645	1	Record type code				3	I3
Data for Low Mass		4	Unit ID				6	A6
Emissions Units		10	Calendar year of application		YYYY		4	I4
Excepted Methodology		14	Type of qualification			YR,OS	2	A2
(New)		16	Year 1		YYYY		4	I4
(1,0,1)		20	Annual or OS measured/projected NO _x mass emissions for Year 1		ton		4	F4.1
		24	Annual or OS NO _x mass calculated from emission factors for Year 1		ton		4	F4.1
		28	Annual measured/projected SO ₂ mass emissions for Year 1	ARP only	ton		4	F4.1
		32	Annual SO ₂ mass calculated from emission factors for Year 1	ARP only	ton		4	F4.1
		36	Annual or OS operating hours for Year 1		hrs		4	I4
		40	Year 2		YYYY		4	I4
		44	Annual or OS measured/projected NO _x mass emissions for Year 2		ton		4	F4.1
		48	Annual or OS NO _x mass calculated from emission factors for Year 2		ton		4	F4.1
		52	Measured/projected SO ₂ mass emissions for Year 2	ARP only	ton		4	F4.1
		56	Annual SO ₂ mass calculated from emission factors for Year 2	ARP only	ton		4	F4.1
		60	Annual or OS operating hours for Year 2		hrs		4	I4
		64	Year 3		YYYY		4	I4
		68	Annual or OS measured/projected NO _x mass emissions for Year 3		ton		4	F4.1
		72	Annual or OS NO _x mass calculated from emission factors for Year 3		ton		4	F4.1
		76	Measured/projected SO ₂ mass emissions for Year 3	ARP only	ton		4	F4.1
		80	Annual SO ₂ mass calculated from emission factors for Year 3	ARP only	ton		4	F4.1
		84	Annual or OS operating hours for Year 3		hrs		4	I4
		<u> </u>			Total Record	l Length	87	

TABLE 6: CERTIFICATION TEST DATA AND RESULTS

	CERTIFICATION TEST DATA										
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)			
		API	PENDIX E AND UNIT SPECIFIC DEFAULT	EMISSION	RATE TEST	DATA					
NO _x Emission	650	1	Record type code				3	I3			
Rate Correlation		4	Unit/Pipe ID				6	A6			
Test Data		10	Monitoring system ID for Appendix E NO _x system	Appendix E only			3	A3			
(Modified)		13	Reference method run start date	2 0111	YYMMDD		6	16			
		19	Reference method run start time		HHMM	0000-2359	4	I4			
		23	Reference method run end date		YYMMDD		6	I6			
		29	Reference method run end time		HHMM	0000-2359	4	I4			
		33	Reference method response time		sec	0-800	3	13			
		36	Value from reference method during run		lb/mmBtu		8	F8.3			
		44	Run number				2	I2			
		46	Operating level (1-lowest)			1-99	2	12			
		48	Type of fuel combusted ¹⁰				1	A1			
		49	Total heat input during the run		mmBtu		7	F7.1			
		56	Reserved				3				
		59	Hourly heat input rate during run		mmBtu/hr		7	F7.1			
		66	Test number				2	I2			
		68	Flag to indicate highest NO _x emission rate for unit-specific, fuel-specific NO _x emission rate testing (H-highest value)			Н	1	A1			
		69	Adjusted NO_x default rate	LME unit default testing only	lb/mmBtu		6	F6.3			
				-	Total Reco	rd Length	74				
NO _x Emission	651	1	Record type code				3	I3			
Rate Correlation		4	Unit/Pipe ID				6	A6			
Results (Modified)		10	Monitoring system ID for Appendix E NO _x system				3	A3			
(Wiodifica)		13	Completion date of last run in level		YYMMDD		6	16			
		19	Completion time of last run in level		HHMM	0000-2359	4	I4			
		23	Arithmetic mean of reference method values at this level		lb/mmBtu		8	F8.3			
		31	F-factor converting NO _x concentrations to emission rates				10	F10.1			
		41	Average heat input rate at this level		mmBtu/hr		7	F7.1			
		48	Operating level (1-lowest)			1-99	2	I2			
		50	Type of fuel combusted 10				1	A1			
		51	Test number				2	I2			
				·	Total Reco	rd Length	52				

TABLE 6: CERTIFICATION TEST DATA AND RESULTS

	CERTIFICATION TEST DATA										
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)			
		API	PENDIX E AND UNIT SPECIFIC DEFAULT	EMISSION	RATE TEST	DATA					
Heat Input from Oil Combusted	652	1	Record type code				3	I3			
During Test		4	Unit/Pipe ID				6	A6			
_		10	Monitoring system ID for oil fuel flow system				3	A3			
(Modified)		13	Run start date		YYMMDD		6	I6			
		19	Run start time		HHMM	0000-2359	4	I4			
		23	Run end date		YYMMDD		6	I6			
		29	Run end time		HHMM		4	I4			
		33	Run number				2	I2			
		35	Mass of oil combusted during run		lb		10	F10.1			
		45	Gross calorific value (GCV) of oil				10	F10.1			
		55	Heat input from oil during run		mmBtu		7	F7.1			
		62	Volume of oil combusted during run				10	F10.1			
		72	Units of measure for oil flow 10				5	A5			
		77	Density of oil				8	F8.6			
		85	Units of measure for density of oil 10				5	A5			
		90	Test number				2	I2			
		92	Units of measure for GCV ¹⁰				6	A6			
					Total Reco	rd Length	97				
Heat Input from	653	1	Record type code				3	I3			
Gas Combusted		4	Unit/Pipe ID				6	A6			
During Test		10	Monitoring system ID for gas fuel flow system				3	A3			
(Modified)		13	Run start date		YYMMDD		6	16			
		19	Run start time		HHMM	0000-2359	4	I4			
		23	Run end date		YYMMDD		6	16			
		29	Run end time		HHMM	0000-2359	4	I4			
		33	Volume of gas combusted during run		100 scf	0000 2557	10	F10.1			
		43	Gross calorific value (GCV) of gas		Btu/100 scf		10	F10.1			
		53	Heat input from gas during run		mmBtu		7	F7.1			
		60	Test number		minista		2	I2			
		00	rest number		Total Reco	rd Lenoth	61	12			
Unit Group	660	1	Record type code		1014111000	Tu Bengui	3	I3			
Testing		4	Group ID				8	A8			
(New)		12	ORIS code or facility ID				6	I6			
(New)		18	Plant name				20	A20			
LME and OTC		38	Unit ID				6	A6			
Only		44	Test status (AE-App. E testing performed,			AE,OT,	2	A2			
		77	OT-other testing performed (NBP only), NT-no testing performed)			NT NT	2	AZ			
		46	Test date for unit (blank, if not tested)		YYYYMMDD		8	18			
		54	Default rate from identical unit testing (if applicable)		lb/mmBtu		6	F6.3			
		60	Purpose of group tests (AE-Appendix E, DF-default rate)			AE,DF	2	A2			
		62	Type of fuel 10				1	A1			
		63	NO _x monitoring system ID	OTC Appendix E only			3	A3			
ļ		<u> </u>	<u> </u>		Total Reco	rd Length	65	<u> </u>			

TABLE 6: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	T DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			QA TEST EXTENSIONS/EXEMP	TION CLA	IMS			_
Single-load Flow	695	1	Record type code				3	I3
RATA Claim		4	Unit/Stack ID				6	A6
(New)		10	Monitoring system ID				3	A3
(INCW)		13	End date of last annual flow RATA		YYYYMMDD		8	18
		21	End date of historical load data collection period		YYYYMMDD		8	18
		29	Historical % usage of low load level (≤ 30.0% of range of operation) in the load data collection period		%	0-100.0	5	F5.1
		34	Historical % usage of mid load level (>30.0 through 60.0% of range of operation) in the load data collection period		%	0-100.0	5	F5.1
		39	Historical % usage of high load level (>60.0% of range of operation) in the load data collection period		%	0-100.0	5	F5.1
		44	Load level for the single-load flow RATA			L,M,H	1	A1
					Total Recor	d Length	44	
Fuel Flowmeter	696	1	Record type code				3	13
Accuracy Test Extension		4	Unit/Pipe ID				6	A6
Extension		10	Monitoring system ID				3	A3
(New)		13	Date of last accuracy test		YYYYMMDD		8	I8
		21	Accuracy test expiration date without extension		YYYYMMDD		8	18
		29	Accuracy test expiration date with extension		YYYYMMDD		8	18
		37	Type of extension ³¹			1-4	2	I2
		39	Quarter and year		QYYYY	11 4	5	A5
RATA Deadline	697	1 1	Record type code		Total Recor	a Length	43	I3
Extension or	097	4	Unit/Stack ID				6	A6
Exemption		10	Monitoring system ID				3	A3
().		13	Date of last RATA		YYYYMMDD		8	I8
(New)		21	RATA expiration date without extension		YYYYMMDD		8	18 18
		29	RATA expiration date with extension		YYYYMMDD		8	18 18
		37	Type of RATA extension or exemption claimed or lost ³²			1-8	2	I2
		39	Year-to-date usage of fuel with sulfur content higher than very low sulfur fuel (as defined in § 72.2)		hrs		4	I4
		43	Year-to-date hours of regular non-redundant back-up CEMS use at this unit/stack		hrs		4	I4
		47	Quarter and year		QYYYY		5	A5
					Total Recor	d Length	51	_

- 31 Limited to table of codes:
- Accuracy test extension (reporting quarter does not qualify as a "fuel flowmeter QA operating quarter") Accuracy test extension based on successful fuel flow-to-load ratio or GHR test
- Accuracy test extension based on ongoing baseline data collection for fuel-to-load ratio or GHR test
- Extension claimed because fewer than 168 hours of fuel flowmeter data remained for fuel flow-to-load ratio analysis, after allowable data exclusions were taken under Section 2.1.7.3 of Appendix D
- Limited to table of codes:

quarter

- 1 RATA deadline extension claimed for the monitoring system identified in RT 697/10. Unit/stack operated for fewer than 168 hours this quarter
- SO₂ RATA deadline extension claimed. Only very low sulfur fuel (as defined in § 72.2) was combusted this quarter Ongoing SO₂ RATA exemption claimed. Only very low sulfur fuel (as defined in § 72.2) was combusted this
- Conditional SO₂ RATA exemption claimed. Year-to-date usage of fuel with a higher sulfur content than 'very low sulfur' fuel (as defined in § 72.2) is \leq 480 hours.
- Conditional RATA exemption claimed. Year-to-date usage of a regular (B) non-redundant backup monitoring system at this unit/stack is < 720 hours and less than 8 full quarters have elapsed since last RATA
- Ongoing SO₂ RATA exemption lost. Fuel with a higher sulfur content than very low sulfur fuel (as defined in § 72.2) was combusted this quarter
- Conditional SO₂ RATA exemption lost. Year-to-date usage of fuel with a higher sulfur content than very low sulfur fuel (as defined in § 72.2) has exceeded 480 hours
- Conditional RATA exemption lost. Year-to-date usage of a regular non-redundant backup monitoring system has exceeded 720 hours at this unit or stack

TABLE 6: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			QA TEST EXTENSIONS/EXEMP	TION CLA	IMS			
Quarterly QA Test Exemption Claim	698	1	Record type code				3	13
Claim		4	Unit/Stack ID				6	A6
(New)		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Basis for exemption 33			1-9	1	I1
		17	Type of test			F,K,L	1	A1
		18	Quarter and year		QYYYY		5	I5
		23	Span scale			L,H	1	A1
'					Total Recor	d Length	23	
QA Test	699	1	Record type code				3	13
Extension Claim Based on Grace		4	Unit/Stack ID				6	A6
Period		10	Component ID				3	A3
(New)		13	Monitoring system ID				3	A3
		16	Type of test (K-Leak Test, L-linearity, R-RATA)			K,L,R	1	A1
		17	Beginning of grace period		YYYYMMDD		8	18
		25	Date of completion of required QA test		YYYYMMDD		8	18
		33	Hour of completion of required QA test		НН	00-23	2	12
		35	Number of unit/stack operating hours from beginning of grace period to completion of QA test or maximum allowable grace period		hrs		3	13
		38	Date of end of grace period		YYYYMMDD		8	18
		46	Hour of end of grace period		НН	00-23	2	12
'					Total Recor	d Length	47	

Exemption for fewer than 168 unit/stack operating hours in quarter or reporting period Linearity exemption analyzer range not used during calendar quarter (dual span only) Flow-to-load test exemptions approved by petition under §75.66 and Section 7.8 of Appendix A Linearity exemption for SO_2 or NO_x analyzer span value ≤ 30 ppm

TABLE 7: COMPLIANCE CERTIFICATION DATA

			CERTIFICATION INFO	RMATION				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	PROGRAM	UNITS	RANGE	LENGTH	FORMAT (FTN)
	Ξ-	-	CERTIFICATION DA	ATA	-	-	-	
Part 75	900	1	Record type code				3	13
Certification Statement and Designated Representative Signature		4	Electronic representation of Part 75 certification statements 34				18	A18
		22	DR last name				25	A25
		47	DR first name				15	A15
AKF Only		62	DR middle initial				2	A2
		64	Date of signature			YYMMDD	6	I6
		70	Title (DR or ADR)			DR,ADR	3	A3
				Total	Record I	ength	72	
Part 72 Certification	901	1	Record type code				3	I3
Statement		4	Certification statement line #			1-12	2	I2
ARP Only		6	Certification text (see instructions for verbatim text)				67	A67
				Total	Record I	ength	72	
Cover Letter Text (file-	910	1	Record type code				3	I3
specific)		4	Cover letter text, file-specific (see instructions)				69	A69
(Optional)		<u>l</u>	L	Total	Record I	ength	72	
Cover Letter Text	920	1	Record type code				3	13
(not specific to file)		4	Other cover letter text, not file-specific (see instructions)				69	A69
(Optional)				Total	Record I	ength	72	

³⁴ The code for this data element is either "CERTIFY," "CERTIFY CONTROLLED," or "CERTIFY DEFERRED."

"CERTIFY" means:

"I understand that EPA may reject any electronic data submission (including Quarterly Reports) if it does not conform to the formatting requirements of EPA's Electronic Data Reporting, Version 2.1, as required by 40 CFR 75.64.

I certify that all data submitted in this report were recorded in accordance with the applicable requirements of 40 CFR Part 75, and that all emissions and quality control data are reported using component ID codes, system ID codes, and formula ID codes which represent current operating conditions."

"CERTIFY CONTROLLED" means:

"I certify that for all hours in which data are submitted following the provisions of 75.34(a)(a) that the add-on emission controls were operating within the range of parameters listed in the monitoring plan and that the substitute values recorded during the quarter do not systematically underestimate SO_2 or other emissions, pursuant to § 75.34.

I understand that EPA may reject any electronic data submission (including Quarterly Reports) if it does not conform to the formatting requirements of EPA's Electronic Data Reporting, Version 2.1, as required by 40 CFR 75.64.

I certify that all data submitted in this report were recorded in accordance with the applicable requirements of 40 CFR Part 75, and that all emissions and quality control data are reported using component ID codes, system ID codes, and formula ID codes which represent current operating conditions."

"CERTIFY DEFERRED" means:

"I understand that for non-operating, affected unit(s) that are not yet certified under 40 CFR 75.4, this electronic report does not have to be generated by a Data Acquisition and Handling System.

I certify that one or more of the affected units identified in this electronic report did not operate and did not generate any SO_2 , NO_x , or CO_2 emissions during the reporting period specified in the quarterly submission."

TABLE 7: COMPLIANCE CERTIFICATION DATA

			CERTIFICATION INFO	RMATION				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	PROGRAM	UNITS	RANGE	LENGTH	FORMAT (FTN)
Subpart H Certification	940	1	Record type code				3	I3
Statement and NO, Authorized		4	Electronic representation of NO _x Budget Program certification statements 35				18	A18
Account Representative		22	AAR last name				25	A25
Signature		47	AAR first name				15	A15
(New)		62	AAR middle initial				2	A2
Subpart H Only		64	Date of signature				6	I6
,		70	Title (AAR or AAAR)				4	A4
'		I.		Total Record I	ength		73	
Subpart H General	941	1	Record type code				3	I3
Certification Statement		4	Certification statement line #			1-11	2	I2
(New)		6	Certification text (ask State for verbatim text)				67	A67
Subpart H		•		Total Record I	Length		72	
Only	999	1	Record type code				3	I3
Contact Person		4	First name				10	A10
Record		14	Last name				15	A15
(Optional)		29	Role/Position of contact person				20	A20
(New)		49	Company				20	A20
(Ivew)		69	DR indicator flag (D-DR/ADR/AAR/AAAR, N-Other)			D,N	1	A1
		70	Phone #				10	I10
		80	Fax #				10	I10
		90	E-mail address				75	A75
,		-	•	Total	Record L	ength	164	

35 The code for this data element is either "CERTIFY," "CERTIFY CONTROLLED," or "CERTIFY DEFERRED."

Unless otherwise specified by State requirements, "CERTIFY" means:

"I understand that the State or EPA may reject any electronic data submission (including Quarterly Reports) if it does not conform to the formatting requirements of EPA's Electronic Data Reporting, Version 2.1.

I certify that all data submitted in this report were recorded in accordance with Part 75 and any applicable State requirements and that all emissions and quality control data are reported using component ID codes, system ID codes, and formula ID codes which represent current operating conditions."

Unless otherwise specified by State requirements, "CERTIFY CONTROLLED" means:

"I certify that for all hours in which data are substituted that the add-on emission controls were operating within the range of parameters listed in the monitoring plan and that the substitute values recorded during the quarter do not systematically underestimate emissions.

I understand that the State or EPA may reject any electronic data submission (including Quarterly Reports) if it does not conform to the formatting requirements of EPA's Electronic Data Reporting, Version 2.1.

I certify that all data submitted in this report were recorded in accordance with Part 75 and any applicable State requirements and that all emissions and quality control data are reported using component ID codes, system ID codes, and formula ID codes which represent current operating conditions."

Unless otherwise specified by State requirements, "CERTIFY DEFERRED" means:

"I understand that for non-operating, affected unit(s) that are not yet certified under Part 75 and applicable State regulations, this electronic report does not have to be generated by a Data Acquisition and Handling System.

I certify that one or more of the affected units identified in this electronic report did not operate and did not generate any NO_X emissions during the reporting period specified in the submission."

APPENDIX A: OTC NBP ONLY RECORD TYPES (FROM EDR v2.0)

RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	UNITS	RANGE	LENGTH	FORMAT (FTN)
Daily QA Reference	232	1	Record type code			3	I3
Checks for Non- CEMS Parameters		4	Unit/Stack ID			6	A6
		10	Component ID			3	A3
		13	Monitoring system ID			3	A3
		16	System parameter			4	A4
		16	Date	YYMMDD		6	I6
		26	Hour	НН	00-23	2	I2
		28	Reference value			13	F13.3
		41	Measured value			13	F13.3
		54	Units of measure			5	A5
		59	Level (L-low, M-mid, N-normal, H-high)		L,M,N,H	1	A1
		60	Results (CE)	%	0.0-100.0	5	F5.1
		65	Status (P-pass, F-fail)		P,F	1	A1
				Total Rec	ord Length	65	
Other Daily QA Checks	233	1	Record type code			3	13
Checks		4	Unit/Stack ID			6	A6
		10	Component ID			3	A3
		13	Monitoring system ID			3	A3
		16	Date	YYMMDD		6	I6
		22	Hour	HH	00-23	2	I2
		24	Status (P-pass, F-fail)		P,F	1	A1
				Total Rec	ord Length	24	
Long Term Fuel Flow Measurements	306	1	Record type code			3	13
riow ivieasurements		4	Unit/Pipe ID			6	A6
		10	Monitoring system ID			3	A3
		13	Type of fuel			3	A3
		16	Period begin date	YYYYMMDD		8	18
		24	Period begin hour	НН	00-23	2	I2
		26	Period end date	YYYYMMDD		8	18
		34	Period end hour	НН	00-23	2	I2
		36	Quantity of fuel			10	I10
		46	Units of measure			5	A5
		51	Operating hours in period	hr		4	I4
		55	Measurement method code			3	A3
,, ,	2.50	1 4	In the state of	Total Rec	ord Length	57	**
Hourly Heat Input Data for Alternative	350	1	Record type code			3	I3
Heat Input Methods		4	Unit/Stack/Pipe ID			6	A6
		10	Component ID			3	A3
		13	Monitoring system ID			3	A3
		16	Date	YYMMDD		6	I6
		22	Hour	HH	00-23	2	I2
		24	Percent availability for heat input calculations	%	0.0-100.0	5	F5.1
		29	Hourly heat input rate	mmBtu/hr		7	F7.1
		36	Adjusted hourly heat input rate	mmBtu/hr		7	F7.1
		43	Method of determination code		05-12,30, 54,55	2	I2
				Total Rec	ord Length	44	

APPENDIX A: OTC NBP ONLY RECORD TYPES (FROM EDR v2.0) (cont.)

RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	UNITS	RANGE	LENGTH	FORMAT (FTN)
Supplementary Heat	351	1	Record type code			3	13
Input Data for Solid Fuel Measurements		4	Unit ID			6	A6
		10	Monitoring system ID			3	A3
		13	Date	YYMMDD		6	16
		19	Hour	НН	00-23	2	I2
		21	Gross calorific value (GCV)	Btu/lb		10	F10.1
		31	Mass of fuel burned during the hour	lb		10	F10.1
		41	Hourly fuel feed rate	lb/hr		10	F10.1
		51	Fuel usage time		0.01-1.00	4	F4.2
				Total Rec	ord Length	54	
Supplementary Heat Input Data for Other	352	1	Record type code			3	13
Methodologies		4	Unit/Stack/Pipe ID			6	A6
		10	Component ID			3	A3
		13	Monitoring system ID			3	A3
		16	Date	YYMMDD		6	16
		22	Hour	НН	00-23	2	I2
		24	Parameter (use code approved by State)			4	A4
		28	Operator (LT-less than, GT-greater than, LE-less than or equal to, GE-greater than or equal to, EQ-equal to)		LT,GT,LE, GE,EQ	3	A3
		31	Limit			13	F13.3
		44	Units (use code approved by State)			5	A5
		49	Hourly value			13	F13.3
		62	Parameter status flag (Y-in spec, N-out of spec, X-parameter data missing or invalid)		Y,N,X	1	A1
				Total Rec	ord Length	62	
Monitoring System Recertification	555	1	Record type code			3	13
Events		4	Unit/Stack ID			6	A6
		10	Monitoring system ID/Component ID			3	A3
		13	Begin date of recertification event	YYMMDD		6	16
		19	Begin hour of recertification event	НН	00-23	2	I2
		21	Recertification event code			2	I2
		23	Recertification event description			50	A50
		73	Recertification event response/action taken			50	A50
		123	Reserved			3	A3
		126	7-day calibration test required	7CE		3	A3
		129	Linearity check required	LIN		3	A3
		132	Cycle time test required	CTT		3	A3
		135	RATA/bias test required (RAN: normal load only, RA3: 3-load RATA)	RAN,RA3		3	A3
		138	DAHS verification required	VER		3	A3
		141	Daily calibration	DLC		3	A3
		144	Interference check	INT		3	A3
		147	Leak check	LCK		3	A3
		150	Completion date of required recertification tests	YYMMDD		6	I6
		156	Completion hour of required recertification tests	HH	00-23	2	I2
				Total Rec	ord Length	157	

APPENDIX A: OTC NBP ONLY RECORD TYPES (FROM EDR v2.0) (cont.)

RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	UNITS	RANGE	LENGTH	FORMAT (FTN)
Fuel Flowmeter	625	1	Record type code			3	I3
Calibration Data		4	Unit/Pipe ID			6	A6
		10	Component ID			3	A3
		13	Monitoring system ID			3	A3
		16	Date	YYMMDD		6	I6
		22	Test number			2	I2
		24	Reference flow measurement value			10	F10.1
		34	Measured flow value			10	F10.1
		44	Units of measure for URV and flow rate			5	A5
		49	Fuel flow rate level (L-low, M-mid, H-high)	L,M,H		1	A1
•		•		Total Rec	ord Length	49	
Fuel Flowmeter	626	1	Record type code			3	I3
Calibration Results		4	Unit/Pipe ID			6	A6
		10	Component ID			3	A3
		13	Monitoring system ID			3	A3
		16	Date	YYMMDD		6	I6
		22	Test number			2	I2
		24	Component upper range value			10	F10.1
		34	Mean of reference flow values			10	F10.1
		44	Mean of measured flow values			10	F10.1
		54	Units of measure for URV and flow rate			5	A5
		59	Accuracy results (% of URV)	%	0.0-100.0	5	F5.1
		64	Fuel flow rate level (L-low, M-mid, H-high)	L,M,H		1	A1
				Total Rec	ord Length	64	
Identical Unit Group Test Results	661	1	Record type code			3	I3
for Appendix E		4	Group ID			8	A8
		12	Test completion date	YYYYMMDD		8	18
		20	Operating level (1-lowest)		1-99	2	I2
		22	Average emission rate for all tests at this level	lb/mmBtu		6	F6.3
		28	Average heat input rate for all tests at this level	mmBtu/hr		7	F7.1
NO P 1 /	020	1 1	D	Total Rec	ord Length	34	12
NO _x Budget Program	930	1	Record type code			3	I3
Certification Statement and		4	Electronic representation of NO _x Budget Program certification statements			18	A18
Authorized Account Representative		22	AAR last name			25	A25
Signature		47	AAR first name			15	A15
-		62	AAR middle initial			2	A2
		64	Date of signature			6	I6
		70	Title (AAR or AAAR)			4	A4
]		_		Total Rec	ord Length	73	
NO _x Budget Program General	931	1	Record type code			3	I3
Certification		4	Certification statement line #		1-11	2	I2
Statement		6	Certification text			67	A67
				Total Rec	ord Length	72	

RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	UNITS	RANGE	LENGTH	FORMAT (FTN)
SO ₂ Mass Emissions	311	1	Record type code			3	I3
Alternative Estimation		4	Unit ID/Pipe header ID			6	A6
Parameters for Oil		10	Date	YYMMDD		6	I6
(Effective through		16	Hour	НН	00-23	2	I2
December 31, 1995)		18	Average flow rate of oil for the hour			10	F10.1
		28	Sulfur content of oil sample	%	0.0-7.0	5	F5.1
		33	Code for method of oil sampling from monitoring plan	ADC,ADD, ADR		3	A3
		36	Mass rate of oil combusted for the hour	lb/hr		10	F10.1
		46	Average SO ₂ mass emissions for the hour	lb/hr		7	F7.1
		53	Highest sulfur content recorded from last 30 daily oil samples	%	0.0-7.0	5	F5.1
		58	Missing data flag	0,1		1	I1
,				Total Reco	ord Length	58	
SO ₂ Mass Emissions Alternative	312	1	Record type code			3	I3
Estimation		4	Unit ID/Pipe header ID			6	A6
Parameters for		10	Date	YYMMDD		6	I6
Natural Gas		16	Heat input from natural gas	mmBtu		10	F10.1
(Effective through		26	Sulfur content of daily gas sample	grains/scf		8	F8.1
December 31, 1995)		34	Volume of gas combusted per day	kscf		8	F8.1
		42	SO ₂ emission rate from NADB or NADB default for pipeline natural gas	lb/mmBtu		13	F13.5
		55	Missing data flag	0,1		1	I1
'		•		Total Reco	ord Length	55	
NO _x Emission Rate	321	1	Record type code			3	I3
Alternative Estimation		4	Unit ID/Pipe header ID			6	A6
Parameters for Oil		10	Date	YYMMDD		6	I6
(Effective through		16	Hour	HH	00-23	2	I2
December 31, 1995)		18	Fuel flowrate of oil for the hour	gal/hr		10	F10.1
		28	NO _x emission rate F-factor for oil			10	F10.1
		38	Average NO _x emission rate for the hour	lb/mmBtu/hr		6	F6.3
		44	Missing data flag	0,1		1	I1
'				Total Reco	ord Length	44	
NO _x Emission Rate	322	1	Record type code			3	I3
Alternative Estimation		4	Unit ID/Pipe header ID			6	A6
Parameters for Natural Gas		10	Date	YYMMDD		6	I6
		16	Hour	НН	00-23	2	I2
(Effective through December 31, 1995)		18	Fuel flowrate of natural gas for the hour	Mscf/hr		10	F10.1
December 31, 1995)		28	NO _x emission rate F-factor for natural gas			10	F10.1
		38	Average NO _x emission rate for the hour	lb/mmBtu/hr		6	F6.3
		44	Missing data flag	0,1		1	I1
'				Total Reco	ord Length	44	

RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	UNITS	RANGE	LENGTH	FORMAT (FTN)
SO ₂ Control	400	1	Record type code			3	I3
Equipment Operation Parameters		4	Unit ID/Stack ID			6	A6
		10	Date	YYMMDD		6	I6
		16	Hour	НН	00-23	2	I2
		18	Number of scrubber modules operating		≥1	2	I2
				Total Reco	ord Length	19	
SO ₂ Control Equipment Scrubber	401	1	Record type code			3	I3
Equipment Scrubber Module Parameters		4	Unit ID/Stack ID			6	A6
Wiodule 1 diameters		10	Scrubber module number		1-n ³⁶	2	I2
		12	Date	YYMMDD		6	I6
		18	Hour	НН	00-23	2	I2
		20	Average percent solids in slurry for operating scrubber module	%	0.0-100.0	5	F5.1
		25	Average feedrate of makeup slurry to operating scrubber module	gal/hr		10	F10.2
		35	Average pressure differential across operating scrubber module			10	F10.2
		45	Average inline absorber pH		0.0-14.0	4	F4.1
		49	Number of spray levels in service		≥1	2	I2
		51	Average scrubber module inlet temperature	NF		3	I3
		54	Average scrubber module outlet temperature	NF		3	I3
•				Total Reco	ord Length	56	
NO _x Control	410	1	Record type code			3	I3
Equipment Operation Parameters		4	Unit ID/Stack ID			6	A6
1 drameters		10	Date	YYMMDD		6	I6
		16	Hour	НН	00-23	2	I2
		18	Inlet air flow rate			6	16
		24	Excess O ₂ concentration of flue gas at stack outlet	%	0.0-100.0	5	F5.1
		29	CO concentration of flue gas at stack outlet	ppm		5	F5.1
		34	Flue gas temperature at furnace exit outlet duct	NF		3	13
				Total Reco	ord Length	36	

³⁶ Upper limit equals the number of scrubber modules identified for the corresponding piece of control equipment.

SO, Phase I 420 1 Record type code 3 13 13 13 13 14 14 15 15 15 15 15 15	RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	UNITS	RANGE	LENGTH	FORMAT (FTN)
Parameters 10 Monitoring system ID 3 3 3 3 3 3 3 3 3	SO ₂ Phase I	420	1	Record type code			3	I3
Parameters 10 Monitoring system ID 3 3 3 3 3 3 3 3 3	Combustion Control		4	Unit/Stack ID			6	A6
Page	Parameters		10	Monitoring system ID			3	A3
CPhase Control units through 12/31/99 21 Inlet SO, emission rate for the hour 10/mmBtu 00-23 13 13 13 3 3 3 3 3 3	Inlet Monitors		13	Date	YYMMDD		6	I6
through 12/31/99 21 Inlet SQ, emission rate for the flour Ib/mmBtu 00-23 13 13 13 3 3 3 3 3 3	(Dhaga Laontual vuita		19	Hour	НН		2	I2
34 Reserved 13 A3 A3 A3 A3 A3 A3 A3	through 12/31/99)		21	Inlet SO ₂ emission rate for the hour	lb/mmBtu	00-23	13	F13.3
SO, Phase I Technology Precombustion Control Units through 12/31/99) A			34	Reserved			13	
SO, Phase 1 Technology Post-Combustion Control Parameters A			47	Formula ID from monitoring plan for hourly inlet SO ₂ emission rates			3	A3
SO, Phase I Technology Post-Combustion Control Parameters			50	Method of determination code		01-04,14	2	I2
Technology Procombustion Control Parameters			1		Total Reco	ord Length	51	
Parameters	SO ₂ Phase I	421	1	Record type code			3	I3
Parameters	Technology Post-		4	Unit/Stack ID			6	A6
Phase I Control Units through 12/31/99 21 Outlet SO ₂ emission rate for the hour 1b/mmBtu 13 F13.3 F1	Parameters		10	Monitoring system ID			3	A3
Phase I Control Units through 12/31/99 12/31/99	Outlet Monitors		13	Date	YYMMDD		6	16
12/31/99			19	Hour	НН	00-23	2	I2
12/31/99 34 Reserved 47 Formula ID from monitoring plan identifying formula deriving average hourly outlet SO ₂ emission rates from monitor data 50 Method of determination code Total Record Length 51			21	Outlet SO ₂ emission rate for the hour	lb/mmBtu		13	F13.3
SO, Phase I Technology Pre-Combustion Control Parameters (Phase I Control Units through 12/31/99) SO, Phase I Technology Pre-Combustion Control Parameters (Phase I Control Units through 12/31/99) SO, Phase I Technology Combustion Emission Control Units through 12/31/99) SO, Phase I Technology Combustion Emission Control Units through 12/31/99) SO, Phase I Technology Combustion Emission Control Units through 12/31/99) SO Details (Phase I Control Units through 13/4 Date (Phase I Co	12/31/99)		34	Reserved			13	
SO, Phase I Technology Pre-Combustion Control Parameters (Phase I Control Units through 12/31/99) SO, Phase I Technology Pre-Combustion Control Parameters (Phase I Control Units through 12/31/99) SO, Phase I Technology Combustion Emission Control Units through 12/31/99) SO, Phase I Technology Combustion Emission Control Units through 12/31/99) SO, Phase I Technology Combustion Emission Control Units through 12/31/99) SO Details (Phase I Control Units through 13/4 Date (Phase I Co			47	Formula ID from monitoring plan identifying formula deriving average hourly outlet SO ₂ emission rates from monitor data			3	A3
SO ₂ Phase I Technology Pre-Combustion Control Parameters 422			50			01-04,14	2	I2
Technology Pre-Combustion Control Parameters	1				Total Record I	Length	51	
Combustion Control Parameters	SO ₂ Phase I	422	1	Record type code			3	I3
Parameters 10 Date YYMMDD 6 16 16	Technology Pre-		4	Unit/Stack ID			6	A6
18			10	Date	YYMMDD		6	16
Units through 12/31/99) 18	(Phase I Control		16	Hour	НН	00-23	2	I2
28 Pre-treatment fuel sulfur content % 0.0-100.0 5 F5.1	`Units through		18	Pre-treatment fuel weight	ton		10	F10.1
43	12/31/99)		28	Pre-treatment fuel sulfur content	%	0.0-100.0	5	F5.1
53			33	Pre-treatment fuel gross calorific value	Btu/lb		10	F10.1
SO ₂ Phase I			43	Post-treatment fuel weight	ton		10	F10.1
SO ₂ Phase I Technology Combustion Emission Controls Total Record Length SO ₂ Phase I Technology A Unit/Stack ID Controls Controls Controls Controls Control Control			53	Post-treatment fuel sulfur content	%	0.0-100.0	5	F5.1
SO ₂ Phase I Technology 423 1 Record type code 3 13 6 A6 A6 A6 A6 A6 A6 A6			58	Post-treatment fuel gross calorific value	Btu/lb		10	F10.1
Technology Combustion Emission Controls (Phase I Control Units through 12/31/99) 4 Unit/Stack ID Monitoring system ID 13 Date 14 Unit/Stack ID Monitoring system ID 15 Date 17 Hour 19 Hour 19 Hour 19 Unitet SO ₂ emission rate for the hour 19 Daily inlet SO ₂ emission rate (determined by coal sampling and analysis) 13 F13.3 F13.3			1	1	Total Record I	Length	67	
Combustion Emission Controls (Phase I Control Units through 12/31/99) 21 Outlet SO ₂ emission rate for the hour 34 Daily inlet SO ₂ emission rate (determined by coal sampling and analysis) 4 Onto Stack ID 4 Onto Stack ID 5 A0 4 A3 A3 A3 A3 A3 HH 00-23 2 12 12 13 F13.3		423	1	Record type code			3	I3
Controls (Phase I Control Units through 12/31/99) 10 Monitoring system ID 13 Date 14 Hour 19 Hour 21 Outlet SO ₂ emission rate for the hour 3 A3 HH 00-23 2 I2 21 Outlet SO ₂ emission rate (determined by coal sampling and analysis) 13 F13.3			4				6	A6
Units through 12/31/99) 19 Hour 21 Outlet SO ₂ emission rate for the hour 34 Daily inlet SO ₂ emission rate (determined by coal sampling and analysis) HH 00-23 2 12 15 15 15 15 15 15 15 15 15 15 15 15 15 1			10	Monitoring system ID			3	A3
Units through 12/31/99) 19 Hour 21 Outlet SO ₂ emission rate for the hour 34 Daily inlet SO ₂ emission rate (determined by coal sampling and analysis) HH 00-23 2 I2 1b/mmBtu 13 F13.3 F13.3	(Phase I Control		13	Date	YYMMDD		6	I6
12/31/99) 21 Outlet SO ₂ emission rate for the hour 34 Daily inlet SO ₂ emission rate (determined by coal sampling and analysis) 13 F13.3 F13.3 F13.3	Units through		19	Hour	НН	00-23	2	I2
Daily inlet SO ₂ emission rate (determined by coal lb/mmBtu 13 F13.3 F13.3	12/31/99)			Outlet SO ₂ emission rate for the hour	lb/mmBtu			F13.3
Total Record Length 46				Daily inlet SO ₂ emission rate (determined by coal				
100011100011110011	,	1	1	1	Total Reco	ord Length	46	

Unit Definition Table (Effective through December 31, 1995)	I3 A20 A20 A6 A2 A3 A3 A3 A8 A6
December 31, 1995 24	A20 A6 A2 A3 A3 A3 A8
December 31, 1995	A6 A2 A3 A3 A3 A8
Stack/Pipe Header Definition Table (Effective through December 31, 1995) Sizek/Pipe header ID Stack/Pipe h	A2 A3 A3 A3 A8
Stack/Pipe Header Definition Table (Effective through December 31, 1995) 502 1 Record type code 4 Plant name 20 C(C), Unchanged (U) 500 Link lisher through December 31, 1999) 522 Boiler type 33 34 34 35 34 34 34 34	A3 A3 A8
Stack/Pipe Header Definition Table CEffective through December 31, 1995 December 31, 1999	A3 A3 A8
Stack/Pipe Header Definition Table (Revised RT 500) Required January 1, 1996 Ceffective through December 31, 1999) Ceffective through December 31, 1999) Stack Pipe Header (Revised RT 500) Required January 1, 1996 Stack Pipe Header (Beffective through December 31, 1999) Stack Pipe header (Revised RT 500) Required January 1, 1996 Stack Pipe header (Revised RT 500) Required January 1, 1996 Stack Pipe header (Revised RT 500) Required January 1, 1996 Stack Pipe header (Revised RT 500) Required January 1, 1996 Stack Pipe header (Revised RT 500) Required January 1, 1996 Stack Pipe header (Revised RT 500) Stack Pipe header (Revised RT 500) Required January 1, 1996 Stack Pipe header (Revised RT 500) Stack	A3 A8
1	A8
69	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	A6
Total Record Length Stack/Pipe Header Definition Table (Effective through December 31, 1995) Size (C) Total Record Length Submission status - Add (A), Delete (D), Correct (C), Unchanged (U) Total Record Length Solution Table (Revised RT 500) Required January 1, 1996 (Effective through December 31, 1999) Solution Table (Revised RT 500) Solution Table (Revised RT 500) Required January 1, 1996 (Effective through December 31, 1999) Solution Table (Revised RT 500) Solution Table (Revised RT 500) Required January 1, 1996 (Revised RT 500) Solution Table (Revised RT 500) Solution Table (Revised RT 500) Solution Table (Revised RT 500) Required January 1, 1996 (Revised RT 500) Solution Table (Revised RT 500) Soluti	
Stack/Pipe Header Definition Table (Effective through December 31, 1995) Stack Required January 1, 1996 (Effective through December 31, 1999) Stack Becamber 31, 1999) Stack Stack Pipe header ID (Stack Pipe header ID (C), Unchanged (U)	A3
92 Opacity monitoring method 3 Total Record Length 94	A8
Stack/Pipe Header Definition Table (Effective through December 31, 1995) 1	A6
Stack/Pipe Header Definition Table (Effective through December 31, 1995) 1	A3
Ceffective through December 31, 1995 10 Stack/Pipe header description or name 20 20 20 20 20 20 20 2	
CEffective through December 31, 1995 10 Stack/Pipe header description or name 20 20 20 20 20 20 20 2	I3
December 31, 1995 30	A6
Submission status - Add (A), Delete (D), Correct	A20
C(), Unchanged (U) Total Record Length 36	A6
Unit Definition Table (Revised RT 500) Required January 1, 1996 (Effective through December 31, 1999) Required January 1, 1999) 1 Record type code 24 Unit short name 20 Unit short name 20 Unit ID (i.e., NADB boiler ID) 50 Unit classification 52 Boiler type 53 Boiler type 55 Primary fuel 58 SO ₂ controls 61 NO _x controls 69 Particulate controls 69 Particulate controls 75 SO ₂ monitoring method 75 NO _x monitoring method 86 CO ₂ monitoring method 92 Opacity monitoring method 3 3 4 Plant name 20 20 44 Unit ID (i.e., NADB boiler ID) 6 6 7 6 7 8 8 8 8 9 9 8 9 9 9 9 9 9 9 9 9 9 9 9	A1
Care	
Comparison of the control of the c	I3
Required January 1, 1996 24 Unit short name 20 (Effective through December 31, 1999) 50 Unit classification 2 52 Boiler type 3 55 Primary fuel 3 58 SO2 controls 3 61 NO $_{\chi}$ controls 8 69 Particulate controls 6 75 SO2 monitoring method 3 78 NO $_{\chi}$ monitoring method 8 86 CO2 monitoring method 6 92 Opacity monitoring method 3	A20
	A20
	A6
December 31, 1999) $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	A2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	A3
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	A6
86 CO ₂ monitoring method 6 92 Opacity monitoring method 3	A3
92 Opacity monitoring method 3	A8
	A6
	A3
95 Secondary fuels 13	A13
Maximum hourly gross load in megawatts (used for load range calculations) MWe-hr 6	16
Maximum hourly gross steam load (used for load range calculations) 1000 lbs/hr 6	16
120 Unit definition change date YYMMDD 6	I6
Total Record Length 125	
Monitoring System 511 1 Record type code 3	13
Certification Status/Events 4 Unit/Stack/Pipe ID 6	A6
10 Component ID 3	A3
(Withdrawn 8/97) 13 Monitoring system ID 3	A3
16 Certification status/event code (PVC-provisional certification, RET-system retired) PVC,RET 3	A3
19 Status/event date YYYYMMDD 8	18
27 Status/event hour HH 00-23 2	I2
Total Record Length 28	

RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	UNITS	RANGE	LENGTH	FORMAT (FTN)
Reference Method	612	1	Record type code			3	13
Supporting Data for Gas RATAs		4	Unit ID/Stack ID			6	A6
		10	Component ID			3	A3
(Required January 1, 1998)		13	Monitoring system ID			3	A3
1998) (Withdrawn 1997)		16	Run number			2	I2
		18	RM run start date	YYMMDD		6	16
		24	RM run start time	HHMM	0000-2359	4	I4
		28	RM run end date	YYMMDD		6	I6
		34	RM run end time	HHMM	0000-2359	4	I4
		38	Type of RM analyzer/system	EXT, DIL		3	A3
		41	Moisture basis of RM analysis	WET, DRY		3	A3
		44	RM instrument span (as defined in App A, Part 60)			5	15
		49	RM dilution factor			5	I5
		54	Reference zero gas concentration			7	F7.2
		61	Initial (pre-test) calibration responsezero gas			7	F7.2
		68	Pre-test calibration errorzero gas (% of span)	%		5	F5.1
		73	Reference mid-level gas concentration			7	F7.2
		80	Initial (pre-test) calibration responsemid gas			7	F7.2
		87	Pre-test calibration errormid gas (% of span)	%		5	F5.1
		92	Reference high-level gas concentration			7	F7.2
		99	Initial (pre-test) calibration responsehigh gas			7	F7.2
		106	Pre-test calibration errorhigh gas (% of span)	%		5	F5.1
		111	Upscale gas used during run (mid, high)	M,H		1	A1
		112	Pre-run system responsezero gas			7	F7.2
		119	Pre-run system bias (non-dilution) or calibration error (dilution)zero gas (% of span)	%		5	F5.1
		124	Post-run system responsezero gas			7	F7.2
		131	Post-run system bias (non-dilution) or calibration error (dilution)zero gas (% of span)	%		5	F5.1
		136	Pre-run system responseupscale gas			7	F7.2
		143	Pre-run system bias (non-dilution) or calibration error (dilution)upscale gas (% of span)	%		5	F5.1
		148	Post-run system responseupscale gas			7	F7.2
		155	Post-run system bias (non-dilution) or calibration error (dilution)upscale gas (% of span)	%		5	F5.1
		160	Zero drift (% of span)	%		5	F5.1
		165	Calibration drift (% of span)	%		5	F5.1
		170	Unadjusted (raw) average concentration for run			7	F7.1
		177	% moisture in stack gas	$\%~\mathrm{H_2O}$		5	F5.2
		182	Stack gas density adjustment factor			5	F5.1
		187	Adjusted average concentration for run (corrected for calibration bias/error and, if applicable, moisture and stack, gas density)			7	F7.1
		194	F-factor used for conversion to lb/mmBtu			6	16
		200	Formula code for formula used to convert to lb/mmBtu			5	A5
				Total Reco	ord Length	204	

RECORD	ТҮРЕ	START					FORMAT
TYPE	CODE	COL	DATA ELEMENT DESCRIPTION	UNITS	RANGE	LENGTH	(FTN)
Reference Method 2	613	1	Record Type			3	I3
Supporting Data for Flow RATA Tests		4	Unit ID/Stack ID			6	A6
(Required January 1,		10	Monitoring system ID			3	A3
1998) (Withdrawn 1997)		13	Run start date	YYMMDD		6	I6
(Withdrawn 1997)		19	Run start time	HHMM	0000-2359	4	I4
		23	Run end date	YYMMDD		6	I6
		29	Run end time	HHMM	0000-2359	4	I4
		33	Run number			2	I2
		35	Operating level	L,M,H,N		1	A1
		36	Number of traverse points			2	I2
		38	(Square root of ΔP) _{avg.}	in. H ₂ O		5	F5.2
		43	T _s , stack temperature	°R		4	I4
		47	P _{bar} , barometric pressure, in. Hg	in. Hg		5	F5.2
		52	P _g , stack static pressure, in. H ₂ O	in. H ₂ O		5	F5.2
		57	% CO ₂ in stack gas, dry basis	%		5	F5.2
		62	% O ₂ in stack gas, dry basis	%		5	F5.2
		67	% moisture in stack gas	$\%~\mathrm{H_2O}$		5	F5.2
		72	M _d , stack gas molecular weight, dry basis	lbs/lbs-mole		5	F5.2
		77	M _s , stack gas molecular weight, wet basis	lbs/lbs-mole		5	F5.2
		82	C _p , pitot tube coefficient			5	F5.3
		87	Date of latest pitot tube calibration	YYMMDD		6	I6
		93	A _s , stack or duct cross-sectional area at test port	ft^2		6	F6.1
		•		Total Reco	ord Length	98	
Cycle Time/Response Time Test Data and	620	1	Record type code			3	I3
Results		4	Unit ID/Stack ID			6	A6
(Effective through		10	Component ID			3	A3
(Effective through December 31, 1995)		13	Monitoring system ID			3	A3
		16	Date	YYMMDD		6	I6
		22	Start time	HHMM	0000-2359	4	I4
		26	End time	HHMM	0000-2359	4	I4
		30	Response/cycle time	Min		2	I2
		32	Start monitor value			13	F13.3
		45	Reference value			13	F13.3
		58	Monitor value at which 95% of the reference value			13	F13.3
			change has occurred	T : 1 B	17 3	70	
A 14	(20	1	D	Total Reco	ora Length	70	12
Alternative Monitoring System	630	1	Record type code			3	I3
Approval Petition		4	Unit ID/ Stack ID			6	A6
Data		10	Component ID			3	A3
(Renumbered		13	Monitoring system ID			3	A3
as 640, July 3, 1997)		16	AMS ID	100000		6	A6
		22	Date	YYMMDD	00.22	6	I6
		28	Hour	НН	00-23	2	I2
		30	Hourly test data for alternative monitoring system			13	F13.3
		43	Hourly lognormalized test data for alternative monitoring system			13	F13.3
		56	Hourly test data for reference CEMS			13	F13.3
		69	Fuel type code			2	I2
		71	Operating level - Low, Normal, High (L,N,H)	L,N,H		1	A1
		72	Gross unit load	MWge		6	I6
				Total Reco	ord Length	77	

RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	UNITS	RANGE	LENGTH	FORMAT (FTN)
Alternative	631	1	Record type code			3	I3
Monitoring System Approval Petition Results and Statistics		4	Unit ID/Stack ID			6	A6
Results and Statistics		10	Component ID			3	A3
(Renumbered		13	Monitoring system ID			3	A3
as 641, July 3, 1997)		16	Unit of measure (1=ppm, 2=lb/mmBtu, 3=scfh, 4=%)	1,2,3,4		1	A1
		17	Arithmetic mean of AMS values			13	F13.3
		30	Arithmetic mean of CEM values			13	F13.3
		43	Arithmetic mean of differences of paired AMS and CEM values			13	F13.3
		56	Variance of differences			13	F13.3
		69	Variance of measured values of AMS			13	F13.3
		82	Variance of measured values for CEM			13	F13.3
		95	F-statistic			13	F13.3
		108	Critical value of F at 95% confidence level for sample size			13	F13.3
		121	Coefficient of correlation (Pearson's r) of CEM and AMS data			13	F13.3
		134	Shapiro-Wilk test statistic (W) for AMS data			13	F13.3
		147	Shapiro-Wilk test statistic (W) for CEMS data			13	F13.3
		160	Lognormally adjusted data used in final analysis (1=yes, 0=no)	0,1		1	I1
		161	Autocorrelation coefficient (ρ) for AMS data			13	F13.3
		174	Autocorrelation coefficient (ρ) for CEM data			13	F13.3
		187	Autocorrelation coefficient (ρ) for differences of paired AMS and CEM data			13	F13.3
		200	Adjustment for autocorrelation used in final analysis (1=yes, 0=no)	0,1		1	I1
		201	Covariance of alternative monitoring data and associated lag(1) values			13	F13.3
		214	Covariance of continuous emission monitoring data and associated lag(1) values			13	F13.3
		227	Covariance of differences of paired AMS and CEM data			13	F13.3
		240	Standard deviation of AMS data			13	F13.3
		253	Standard deviation of CEM data			13	F13.3
		266	Standard deviation of differences of paired AMS and CEM data			13	F13.3
		279	Standard deviation of lag(1) AMS data			13	F13.3
		292	Standard deviation of lag(1) CEM data			13	F13.3
		305	Standard deviation of lag(1) differences of paired AMS and CEM data			13	F13.3
		318	Variance inflation factor for AMS data			13	F13.3
		331	Variance inflation factor for CEM data			13	F13.3
		344	Variance inflation factor for difference of paired AMS and CEM data			13	F13.3
				Total Reco	ord Length	356	